

**OPENCOURSEWARE** 



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innovative • entrepreneurial • global



**OPENCOURSEWARE** 

# **Topic 6**

#### **Allocating Resources to the Project**



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### Introduction

- Projects Compete With One Another for Resources
  - resources that are not consumed
  - resources that are consumed
- Goal of Resource Allocation is to Optimize Use of Limited Supply
- Requires making trade-offs
  - time constrained
  - resource constrained



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## **EXPEDITING A PROJECT**



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## The Critical Path Method (CPM)

- Normal Duration Estimates
- Normal Costs
- Crash Duration Estimates
- Crash Costs
- Crash Cost Per Day

Normal Duration - Crash Duration

Crash Cost - Normal Cost



## **Gantt Chart Crash Problem -- 21-Day Project**

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## AON Network for Sample Crash Problem -- 21-Day Project



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## **Gantt Chart for 20-Day Solution to Crash Problem**

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|                              | Start<br>a<br>b<br>c<br>d<br>e<br>f<br>f<br>g<br>Finish<br>CrashExamp | Start 0 days<br>a 0 days<br>b 7 days<br>c 6 days<br>d 7 days<br>d 7 days<br>e 5 days<br>f 8 days<br>g 7 days<br>Finish 0 days | Start     0 days        a     5 days     1       b     7 days     2       c     6 days     2       d     7 days     3       f     8 days     4       g     7 days     5.6       Finish     0 days     7 | Start         0 days         Sun 10/01/00           a         5 days         1         Sun 10/01/00           b         7 days         1         Sun 10/01/00           c         6 days         2         Fri 10/06/00           d         7 days         2         Fri 10/06/00           d         7 days         3         Sun 10/01/00           e         5 days         3         Sun 10/06/00           f         8 days         4         Thu 10/12/00           g         7 days         5, 6         Fri 10/13/00           Finish         0 days         7, 8         Fri 10/19/00 | Start         0 days         Sun 10/01/00         Sun 10/01/00           a         5 days         1         Sun 10/01/00         Thu 10/05/00           b         7 days         1         Sun 10/01/00         Sat 10/07/00           c         6 days         2         Fri 10/06/00         Wed 10/11/00           d         7 days         2         Fri 10/06/00         Thu 10/12/00           e         5 days         3         Sun 10/06/00         Thu 10/12/00           f         8 days         4         Thu 10/12/00         Thu 10/19/00           g         7 days         5,6         Fri 10/13/00         Thu 10/19/00           Finish         0 days         7,8         Fri 10/19/00         Thu 10/19/00 | Task Name         Duration         Prede         Start         Finish         S         M           Start         0 days          Sun 10/01/00         Sun 10/01/00         Sun 10/01/00         Thu 10/05/00         10/01           a         5 days         1         Sun 10/01/00         Thu 10/05/00         Thu 10/05/00         Thu 10/05/00         10/01         10/01           b         7 days         1         Sun 10/01/00         Sat 10/07/00         Thu 10/12/00         10/01/00         10/01/00         10/01/00         10/01/00         10/01/00         10/01/00         10/01/00         10/01/00         10/01/00         10/01/00         10/01/00         10/01/00         10/01/00         10/01/00         10/01/00         10/01/00         10/01/00         10/01/00         10/01/00         10/01/00         10/01/00         10/01/00         10/01/00         10/01/00         10/01/00         10/01/00         10/01/00         10/01/00         10/01/00         10/01/00         10/01/00         10/01/00         10/01/00         10/01/00         10/01/00         10/01/00         10/01/00         10/01/00         10/01/00         10/01/00         10/01/00         10/01/00         10/01/00         10/01/00         10/01/00         10/01/00         10/01/00 | Start         0 days         Sun 10/01/00         Sun 10/01/00         Jun 10/01/00           a         5 days         1         Sun 10/01/00         Thu 10/05/00         Jun 10/01/00           b         7 days         1         Sun 10/01/00         Sat 10/07/00         Sat 10/07/00           c         6 days         2         Fri 10/06/00         Wed 10/11/00           d         7 days         2         Fri 10/06/00         Thu 10/12/00           e         5 days         3         Sun 10/06/00         Thu 10/12/00           f         8 days         4         Thu 10/12/00         Thu 10/19/00           g         7 days         5, 6         Fri 10/13/00         Thu 10/19/00           Finish         0 days         7, 8         Fri 10/19/00         Thu 10/19/00           Finish         0 days         7, 8         Fri 10/19/00         Thu 10/19/00 | Task Name         Duration         Prede         Start         Finish         S         M         T         W         T         F         S           Start         0 days         Sun 10/01/00         Sun 10/01/00         Sun 10/01/00         Introduction         Introduction | Task Name         Duration         Prede         Start         Finish         S         M         T         W         T         F         S         S         N           Start         0 days          Sun 10/01/00         Sun 10/01/00         Sun 10/01/00         Introduction         Introduction | Task Name         Duration         Prede         Start         Finish         S         M         T         W         T         F         S         S         M         T         W         T         F         S         S         M         T         W         T         F         S         S         M         T         W         T         F         S         S         M         T         W         T         F         S         S         M         T         W         T         F         S         S         M         T         W         T         F         S         S         M         T         W         T         F         S         S         M         T         W         T         F         S         S         M         T         W         T         F         S         S         M         T         W         T         F         S         S         M         T         W         T         F         S         S         M         T         W         T         W         T         W         T         W         T         W         T         W         T         W <tht< td=""><td>Task Name         Duration         Prede         Start         Finish         S         M         T         W         T         F         S         M         T         W         T         F         S         M         T         W         T         F         S         M         T         W         T         F         S         M         T         W         T         F         S         M         T         W         T         F         S         M         T         W         T         F         S         M         T         W         T         F         S         M         T         W         T         F         S         M         T         W         T         F         S         M         T         W         T         F         S         M         T         W         T         F         S         M         T         W         T         F         S         M         T         W         T         F         S         M         T         W         T         F         S         M         T         W         T         F         S         M         T         W         <tht< td=""><td>Task Name       Duration       Prede       Start       Finish       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       M       D       D       D       D       D       <thd< th=""> <thd< th=""> <thd< td=""><td>Task Name         Duration         Prede         Start         Finish         S         M         T         W         T         F         S         S         M         T         W         T         F         S         S         M         T         W         T         F         S         S         M         T         W         T         F         S         S         M         T         W         T         F         S         S         M         T         W         T         F         S         S         M         T         W         T         F         S         S         M         T         W         T         F         S         S         M         T         W         T         F         S         S         M         T         W         T         F         S         S         M         T         W         T         F         S         S         M         T         W         T         F         S         S         M         T         W         T         F         S         S         M         T         W         T         F         S         S         M         <tht< td=""><td>Task Name       Duration       Prede       Start       Finish       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       <t< td=""><td>Task Name       Duration       Prede       Start       Finish       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F 
     S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       W       T       <t< td=""><td>Task Name       Duration       Prede       Start       Finish       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       <t< td=""><td>Task Name       Duration       Prede       Start       Finish       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       <t< td=""><td>Task Name       Duration       Prede       Start       Finish       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       <t< td=""><td>Task Name     Duration     Prede     Start     Finish     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T</td><td>Task Name       Duration       Prede       Start       Finish       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       <t< td=""><td>Task Name       Duration       Prede       Start       Finish       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       <t< td=""><td>Task Name       Duration       Prede       Start       Finish       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       <t< td=""><td>Task Name     Duration     Prede     Start     Finish     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T<td>Task Name       Duration       Prede       Start       Finish       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       <t< td=""></t<></td></td></t<></td></t<></td></t<></td></t<></td></t<></td></t<></td></t<></td></t<></td></tht<></td></thd<></thd<></thd<></td></tht<></td></tht<> | Task Name         Duration         Prede         Start         Finish         S         M         T         W         T         F         S         M         T         W         T         F         S         M         T         W         T         F         S         M         T         W         T         F         S         M         T         W         T         F         S         M         T         W         T         F         S         M         T         W         T         F         S         M         T         W         T         F         S         M         T         W         T         F         S         M         T         W         T         F         S         M   
     T         W         T         F         S         M         T         W         T         F         S         M         T         W         T         F         S         M         T         W         T         F         S         M         T         W         T         F         S         M         T         W         T         F         S         M         T         W <tht< td=""><td>Task Name       Duration       Prede       Start       Finish       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       M       D       D       D       D       D       <thd< th=""> <thd< th=""> <thd< td=""><td>Task Name         Duration         Prede         Start         Finish         S         M         T         W         T         F         S         S         M         T         W         T         F         S         S         M         T         W         T         F         S         S         M         T         W         T         F         S         S         M         T         W         T         F         S         S         M         T         W         T         F         S         S         M         T         W         T         F         S         S         M         T         W         T         F         S         S         M         T         W         T         F         S         S         M         T         W         T         F         S         S         M         T         W         T         F         S         S         M         T         W         T         F         S         S         M         T         W         T         F         S         S         M         T         W         T         F         S         S         M         <tht< td=""><td>Task Name       Duration       Prede       Start       Finish       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       <t< td=""><td>Task Name       Duration       Prede       Start       Finish       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       W       T       <t< td=""><td>Task Name       Duration       Prede       Start       Finish       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       <t< td=""><td>Task Name       Duration       Prede       Start       Finish       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       <t< td=""><td>Task Name       Duration       Prede       Start       Finish       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       <t< td=""><td>Task Name     Duration     Prede     Start     Finish     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T</td><td>Task Name       Duration       Prede       Start       Finish       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       <t< td=""><td>Task Name       Duration       Prede       Start       Finish       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W     
 T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       <t< td=""><td>Task Name       Duration       Prede       Start       Finish       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       <t< td=""><td>Task Name     Duration     Prede     Start     Finish     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T<td>Task Name       Duration       Prede       Start       Finish       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       <t< td=""></t<></td></td></t<></td></t<></td></t<></td></t<></td></t<></td></t<></td></t<></td></t<></td></tht<></td></thd<></thd<></thd<></td></tht<> | Task Name       Duration       Prede       Start       Finish       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       M       D       D       D       D       D <thd< th=""> <thd< th=""> <thd< td=""><td>Task Name         Duration         Prede         Start         Finish         S         M         T         W         T         F         S         S         M         T         W         T         F         S         S         M         T         W         T         F         S         S         M         T         W         T         F         S         S         M         T         W         T         F         S         S         M         T         W         T         F         S         S         M         T         W         T         F         S         S         M         T         W         T         F         S         S         M         T         W         T         F         S         S         M         T         W         T         F         S         S         M         T         W         T         F         S         S         M         T         W         T         F         S         S         M         T         W         T         F         S         S         M         T         W         T         F         S         S         M         <tht< td=""><td>Task Name       Duration       Prede       Start       Finish       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       <t< td=""><td>Task Name       Duration       Prede       Start       Finish       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       W       T       <t< td=""><td>Task Name       Duration       Prede       Start       Finish       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       <t< td=""><td>Task Name       Duration       Prede       Start       Finish       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       <t< td=""><td>Task Name       Duration       Prede       Start       Finish       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M      
T       W       T       F       S       <t< td=""><td>Task Name     Duration     Prede     Start     Finish     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T</td><td>Task Name       Duration       Prede       Start       Finish       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       <t< td=""><td>Task Name       Duration       Prede       Start       Finish       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       <t< td=""><td>Task Name       Duration       Prede       Start       Finish       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       <t< td=""><td>Task Name     Duration     Prede     Start     Finish     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T<td>Task Name       Duration       Prede       Start       Finish       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       <t< td=""></t<></td></td></t<></td></t<></td></t<></td></t<></td></t<></td></t<></td></t<></td></t<></td></tht<></td></thd<></thd<></thd<> | Task Name         Duration         Prede         Start         Finish         S         M         T         W         T         F         S         S         M         T         W         T         F         S         S         M         T         W         T         F         S         S         M         T         W         T         F         S         S         M         T         W         T         F         S         S         M         T         W         T         F         S         S         M         T         W         T         F         S         S         M         T         W         T         F         S         S         M         T         W         T         F         S         S         M         T         W         T         F         S         S         M         T         W         T         F         S         S         M         T         W         T         F         S         S         M         T         W         T         F         S         S         M         T         W         T         F         S         S         M <tht< td=""><td>Task Name       Duration       Prede       Start       Finish       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       <t< td=""><td>Task Name       Duration       Prede       Start       Finish       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       W       T       <t< td=""><td>Task Name       Duration       Prede       Start       Finish       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       <t< td=""><td>Task Name       Duration       Prede       Start       Finish       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T      
F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       <t< td=""><td>Task Name       Duration       Prede       Start       Finish       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       <t< td=""><td>Task Name     Duration     Prede     Start     Finish     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T</td><td>Task Name       Duration       Prede       Start       Finish       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       <t< td=""><td>Task Name       Duration       Prede       Start       Finish       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       <t< td=""><td>Task Name       Duration       Prede       Start       Finish       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       <t< td=""><td>Task Name     Duration     Prede     Start     Finish     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T<td>Task Name       Duration       Prede       Start       Finish       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       <t< td=""></t<></td></td></t<></td></t<></td></t<></td></t<></td></t<></td></t<></td></t<></td></t<></td></tht<> | Task Name       Duration       Prede       Start       Finish       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M <t< td=""><td>Task Name       Duration       Prede       Start       Finish       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       W       T       <t< td=""><td>Task Name       Duration       Prede       Start       Finish       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S    
  M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       <t< td=""><td>Task Name       Duration       Prede       Start       Finish       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       <t< td=""><td>Task Name       Duration       Prede       Start       Finish       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       <t< td=""><td>Task Name     Duration     Prede     Start     Finish     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T</td><td>Task Name       Duration       Prede       Start       Finish       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       <t< td=""><td>Task Name       Duration       Prede       Start       Finish       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       <t< td=""><td>Task Name       Duration       Prede       Start       Finish       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       <t< td=""><td>Task Name     Duration     Prede     Start     Finish     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T<td>Task Name       Duration       Prede       Start       Finish       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       <t< td=""></t<></td></td></t<></td></t<></td></t<></td></t<></td></t<></td></t<></td></t<></td></t<> | Task Name       Duration       Prede       Start       Finish       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       W       T <t< td=""><td>Task Name       Duration       Prede       Start       Finish       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       <t< td=""><td>Task Name       Duration       Prede       Start       Finish       S       M    
  T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       <t< td=""><td>Task Name       Duration       Prede       Start       Finish       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       <t< td=""><td>Task Name     Duration     Prede     Start     Finish     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T</td><td>Task Name       Duration       Prede       Start       Finish       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       <t< td=""><td>Task Name       Duration       Prede       Start       Finish       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       <t< td=""><td>Task Name       Duration       Prede       Start       Finish       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       <t< td=""><td>Task Name     Duration     Prede     Start     Finish     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T<td>Task Name       Duration       Prede       Start       Finish       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       <t< td=""></t<></td></td></t<></td></t<></td></t<></td></t<></td></t<></td></t<></td></t<> | Task Name       Duration       Prede       Start       Finish       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S <t< td=""><td>Task Name       Duration       Prede       Start       Finish       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       <t< td=""><td>Task Name       Duration       Prede       Start       Finish       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S
      M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       <t< td=""><td>Task Name     Duration     Prede     Start     Finish     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T</td><td>Task Name       Duration       Prede       Start       Finish       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       <t< td=""><td>Task Name       Duration       Prede       Start       Finish       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       <t< td=""><td>Task Name       Duration       Prede       Start       Finish       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       <t< td=""><td>Task Name     Duration     Prede     Start     Finish     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T<td>Task Name       Duration       Prede       Start       Finish       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       <t< td=""></t<></td></td></t<></td></t<></td></t<></td></t<></td></t<></td></t<> | Task Name       Duration       Prede       Start       Finish       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S <t< td=""><td>Task Name       Duration       Prede       Start       Finish       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       <t< td=""><td>Task Name     Duration     Prede     Start     Finish     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T</td><td>Task Name       Duration       Prede       Start       Finish       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       <t< td=""><td>Task Name       Duration       Prede       Start       Finish       S       M       T       W       T       F       S       M  
    T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       <t< td=""><td>Task Name       Duration       Prede       Start       Finish       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       <t< td=""><td>Task Name     Duration     Prede     Start     Finish     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T<td>Task Name       Duration       Prede       Start       Finish       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       <t< td=""></t<></td></td></t<></td></t<></td></t<></td></t<></td></t<> | Task Name       Duration       Prede       Start       Finish       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S <t< td=""><td>Task Name     Duration     Prede     Start     Finish     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T</td><td>Task Name       Duration       Prede       Start       Finish       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       <t< td=""><td>Task Name       Duration       Prede       Start       Finish       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       <t< td=""><td>Task Name       Duration       Prede       Start       Finish       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       <t< td=""><td>Task Name     Duration     Prede     Start     Finish     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T<td>Task Name       Duration       Prede       Start       Finish       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T     
 F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       <t< td=""></t<></td></td></t<></td></t<></td></t<></td></t<> | Task Name     Duration     Prede     Start     Finish     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T | Task Name       Duration       Prede       Start       Finish       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S <t< td=""><td>Task Name       Duration       Prede       Start       Finish       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       <t< td=""><td>Task Name       Duration       Prede       Start       Finish       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       <t< td=""><td>Task Name     Duration     Prede     Start     Finish     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T<td>Task Name       Duration       Prede       Start       Finish       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       <t< td=""></t<></td></td></t<></td></t<></td></t<> | Task Name       Duration       Prede       Start       Finish       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W <t< td=""><td>Task Name       Duration       Prede       Start       Finish       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       <t< td=""><td>Task Name     Duration     Prede     Start     Finish     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T<td>Task Name       Duration       Prede       Start       Finish       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       <t< td=""></t<></td></td></t<></td></t<> | Task Name       Duration       Prede       Start       Finish       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T
      W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S       S       M       T       W       T       F       S <t< td=""><td>Task Name     Duration     Prede     Start     Finish     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T<td>Task Name       Duration       Prede       Start       Finish       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       <t< td=""></t<></td></td></t<> | Task Name     Duration     Prede     Start     Finish     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T     W     T     F     S     S     M     T <td>Task Name       Duration       Prede       Start       Finish       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       <t< td=""></t<></td> | Task Name       Duration       Prede       Start       Finish       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W       T       F       S       M       T       W <t< td=""></t<> |



innovative • entrepreneurial • global





## **Gantt Chart for 19-Day Solution to Crash Problem**

				8	-	Oct	01, '00	2.9 %	N 43	Oct	08, '0	00	225 - 265	12-22	Oct 1	5, '00		- 95 - 95		Oct 22	2, '00		- 10 - 10 <sup>2</sup>		Oct 29	9, '00	y	- 28 - 9		Nov	06, '	00		11. Jul
ID	Task Name	Duration	Prede	Start			ΤN	WT	F S			ΤW	TI	FS		ΛT		ΤF		S M		W	F		S M		W	TF	S			T W	T	F
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2	а	5 days	1	Sun 10/01/00	Thu 10/05/00	⊨			ካ	į –									į					-j										
3	b	7 days	1	Sun 10/01/00	Sat 10/07/00	<b>Y</b>		_		h									÷					ł										
4	с	6 days	2	Fri 10/06/00	Wed 10/11/00				<b>₩</b>	+			ካ						- [					1										
5	d	7 days	2	Fri 10/06/00	Thu 10/12/00				<u> </u>	╬			Þ						÷					ł										
6	е	5 days	3	Sun 10/06/00	Thu 10/12/00	1				Ě			ÞI											1										
7	f	8 days	4	Thu 10/12/00	Thu 10/19/00					i –		ñ	4	_				7	i					-i										
8	g	7 days	5, 6	Fri 10/13/00	Thu 10/19/00	1				ł			Ľ	_	_	_	_	-																
9	Finish	0 days	7, 8	Fri 10/19/00	Thu 10/19/00	1				į.								<b>1</b> 0/	/19					-j										
				Task			S	ack	_			_																						
	t CrashExamp Sat 02/12/00	Gnt		Critical task				lestone	$\diamond$																									
									•																									



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## **Gantt Chart for 18-Day Solution to Crash Problem**

				2		Oct 0	1, '00	14 - 18 - 18	0	Oct 08,	'00'	38. 92	- 8576	Oct 1	5, '00	35750	95 - 68	0	t 22,	00			Oct 2	9, '00			12 R	Nov	/ 05,	'00'	785	23.5
ID	Task Name	Duration	Prede	Start	Finish	S M	TW	TF	S S	S M	ΤV	VΤ	F S	S N	T	WT	FS	S S	М	TW	T	F S	SI	1 T	W	TF	S	S	М	ΤV	/ T	F
1	Start	0 days		Sun 10/01/00	Sun 10/01/00	10/1	01		1					1				1					1									
2	a	5 days	1	Sun 10/01/00	Thu 10/05/00				į					į –				i					i –									
3	b	7 days	1	Sun 10/01/00	Sat 10/07/00	*		_	╡					ł				ł					ľ									
4	с	4 days	2	Fri 10/06/00	Mon 10/09/00			÷	4		1			į –				Ì.					i –									
5	d	7 days	2	Fri 10/06/00	Thu 10/12/00			<u></u>	#	_			1	i				ł					i -									
6	e	5 days	3	Sun 10/06/00	Thu 10/12/00				ľ	_	-	_		-				1					-									
7	f	9 days	4	Thu 10/10/00	Wed 10/18/00				i		*	-		-		-		i.					i –									
8	g	6 days	5, 6	Fri 10/13/00	Wed 10/18/00				-			c	*	<u> </u>				1														
9	Finish	0 days	7, 8	Wed 10/18/00	Wed 10/18/00				į.					į –		\$	10/16	i					i –									
roject	CrashExamp	Gnt		Task			Stack																									
ate: S	: CrashExamp at 02/12/00	70.05C		Critical task			Miles	one 🔷																								



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## Gantt Chart for 16-Day Solution to Crash Problem

				1		Oct 01,	'00	1	Oct 08,	, '00	AR 44 1000	Oct	15, '00			Oct 22	, '00			Oct 29	9, '00				Nov	05, '00		63	
ID	Task Name	Duration	Prede	Start	Finish	S M	TWTF	S	S M	ΤW	TF	S S	MT	WT	F S	S M	T	ΤW	FS	S M	T	WT	F	S	S	ΜT	W	ΤF	S
1	Start	0 days		Sun 10/01/00	Sun 10/01/00	10/01						1																	
2	а	5 days	1	Sun 10/01/00	Thu 10/05/00	H=			i i			į.				i				i i									
3	b	7 days	1	Sun 10/01/00	Sat 10/07/00	*			h			1				I I				ľ									
4	с	4 days	2	Fri 10/06/00	Mon 10/09/00	1	ļ.	_		ካ		1				1				1									
5	d	7 days	2	Fri 10/06/00	Thu 10/12/00	1	Ľ	_		-	-	ł				i				i –									
6	е	5 days	3	Sun 10/06/00	Thu 10/12/00	1			<u>*</u>		-	-								ľ									
7	f	7 days	4	Thu 10/10/00	Mon 10/16/00	1			1	<u>*</u>	_	÷	-			i i				i i									
8	g	4 days	5, 6	Fri 10/13/00	Mon 10/16/00	1			1		<u>*</u>	+	-							ł									
9	Finish	0 days	7, 8	Mon 10/16/00	Mon 10/16/00	1			i .			į.	Ø 10	0/16						į –									
Design	h OrachEvanna	Cat	Т	Task			Stac	k																					_
Date: \$	t CrashExamp Sat 02/12/00	GNL		Critical task			Mile:	stone		$\diamond$																			



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## **Project Cost Versus Project Duration for Sample Crash Problem**





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#### **Probabilistic Activity Durations**

Three time estimates made for both normal resource loading and crash resource loading Variance of normal activity may be different than variance of crash time





#### **Using Excel's Solver to Crash a Project**

- Target Cell
  - minimize crashing costs
- By Changing Cells
  - amount to crash activities
  - time events occur
- Constraints
  - amount each activity can be crashed
  - precedence relationships
  - complete project by specified time
  - nonnegativity



## AOA Network of Sample "Crash" Problem





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# **Cost/Duration Graph for Sample Crashing Project**



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### **Fast-Tracking a Project**





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## **RESOURCE LOADING**



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#### **Resource Loading**

- Amount of specific resources that are scheduled for use on specific activities or projects at specific times.
- Usually a list or table.





#### Action Plan and Gantt Chart for Production of a Videotape

			Producing a Videotape A.J. Lucas	
WBS	Task Name	Duration	Resource Names	March         April         May         J           21         28         06         13         20         27         03         10         17         24         01         08         15         22         29
1	Project approval	0 days		03/01
2	Scriptwriting	14 days	Scriptwriter	03/20
3	Schedule shoots	15 days		
3.1	Begin scheduling	0 days		03/01
3.2	Propose shoots	5 days	Producer, client, scriptwriter	-03/07
3.3	Hire secretary	5 days	Producer	03/07
3.4	Scheduling shoots	10 days	Secretary	03/21
3.5	Scheduling complete	0 days		03/21
4	Script approval	5 days	Client, producer	03/27
5	Revise script	5 days	Scriptwriter, producer	04/03
6	Shooting	10 days	Scriptwriter, production staff	04/17
7	Editing	7 days	Editor, editing staff, editing room	04/26
8	Final approval	5 days	Client, producer, editor, editing room	05/03
9	Deliver video to client	0 days		05/03
Start o Finish	date: 03/01 date: 05/03	Task	Milestone 🔷	Summary V





### **The Charismatic VP**

- Subordinates have hard time saying no to well liked boss.
- Leads to overcommitted subordinates.
- Problem further compounded because more experienced workers tend to be most over worked.
- One solution is to set specific limits on amount of overscheduling permitted.



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## **RESOURCE LEVELING**



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## Gantt Chart for Videotape Project, Adjusted for Client Availability

	ed start date: 03/01 ed finish date: 05/17			Producing	a Videotape	9	
WBS	Task Name	Adj. Duration	Start	Finish	Late Start	Late Finish	March         April         May           21         28         06         13         20         27         03         10         17         24         01         08         15         22         2
1	Project approval	0 days	03/01	03/01	03/11	03/11	03/01
2	Scriptwriting	14 days	03/01	03/15	03/11	03/27	
3	Schedule shoots	15 days	03/01	03/21	04/26	05/17	40.5 day
3.1	Begin scheduling	0 days	03/01	03/01	05/10	05/10	
3.2	Propose shoots	6.5 days	03/01	03/07	05/10	05/17	10 days
3.3	Hire secretary	5 days	03/01	03/07	04/26	05/03	
3.4	Schedule shoots	10 days	03/08	03/21	05/03	05/17	
3.5	Scheduling complete	0 days	03/21	03/21	05/17	05/17	40.5 day
4	Script approval	10 days	03/15	03/31	03/27	04/03	
5	Revise script	6.63 days	03/31	04/07	04/03	04/10	
6	Shooting	10 days	04/10	04/21	04/10	04/24	1   🗖
7	Editing	10.06 days	04/24	05/08	04/24	05/08	
8	Final approval	7.19 days	05/08	05/07	05/08	05/17	
9	Deliver video to client	0 days	05/17	05/17	05/17	05/17	05/17
Slack	shown	Task		] Milesto	ne 🔷		Slippage
		Split ————		Slack			Summary
Adjust	ed for resource availability						

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#### **Resource Overallocation Report for Scriptwriter Showing all Activities**

	ct start date: 03/01 ct finish date: 05/17		Resourc	e Overallocate	d: Scriptwriter		
WBS 2	Task Name Scripwriting	Duration 14 days	Sch. Start 03/01	Sch. Finish 03/15	March 28 06 13 20 2 Scriptwr	April 27 03 10 17 24 iter	May 01 08 15
3.2	Propose shoots	6.5 days	03/01	03/07		ducer, client, scriptwr	iter
5	Revise script	6.63 days	03/31	04/07		Scriptwriter,	producer
		1					
Prior t	o resource leveling	Prelevele Prelevele Task Split Progress	d split ——— ———		Preleveled milestone Milestone Delay Slack Summary		



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#### **Graphic Resource Overallocation Report for Scriptwriter**





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## **Resource Leveled Report for Scriptwriter Showing all Activities**

	start date: 03/01 start date: 05/17				Res	ource L	eveled:	Scriptwr	iter									
					Mar					April				May				Jun
WBS	Task Name	Revised Duration	Revised Start	21	28	06	13	20	27	03	10	17	24	01	08	15	22	29
2	Scripwriting	14 days	03/01				Sc	ritwriter						1				
3.2	Propose shoots	10 days	03/01			<b>-</b>		Pro	ducer,	client, s	cripwrite	er		1				
5	Revise script	6.63 days	03/31		į.						Scriptw	riter, pr	oducer	i				i
		Prelevele				Progr						Stack						
After re	ecource leveling	Prelevele Task Split	ed split ——— ———			Prele Miles Delay	tone	ilestone	$\diamond$			Sumr	nary	$\smile$		$\neg$		



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## Graphic Resource Leveled Report for Scriptwriter





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### Daily Resource Loading Chart for Videotape Project, Scriptwriter Leveled

								Resource	ng a Vide ce Work I vriter Lev	lours									
							Mar 06, '	00						Mar 13, 1	'00				
Resource Name	Work	W	Т	F	S	S	M	T	W	Т	F	S	S	M	T	W	Т	F	S
Scriptwriter	192 hrs	9h	9h	9h	9h		9h	9h	9h	9h	9h	9h		9h	9h	9h	9h	9h	91
Scriptwriting	112 hrs	9h	9h	9h	9h		9h	9h	9h	9h	9h	9h		9h	9h	4h			
Propose shoots	40 hrs	Oh	Oh	0h	Oh		Oh	Oh	Oh	0h	Oh	Oh		Oh	0h	5h	9h	9h	91
Revise script	40 hrs	( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( )		2								( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( )							
Producer	200 hrs	16h	16h	16h			16h	16h								4h	8h	8h	
Propose shoots	40 hrs	8h	8h	8h			8h	8h				3							
Hire secretary	40 hrs	8h	8h	8h			8h	8h											
Script approval	40 hrs															4h	8h	8h	
Revise script	40 hrs																		
Final approval	40 hrs																		
Client	120 hrs	8h	8h	8h			8h	8h											
Propose shoots	40 hrs	8h	8h	8h			8h	8h											
Script approval	40 hrs																		
Final approval	40 hrs																		
Secretary	80 hrs								8h	8h	8h			8h	8h	8h	8h	8h	
Schedule shoot	80 hrs								8h	8h	8h			8h	8h	8h	8h	8h	
Editor	176 hrs											1							
Shooting	80 hrs																		
Editing	56 hrs																		
Final approval	40 hrs																		
Production staff	80 hrs																		
Shooting	80 hrs			( ) ( )		5													
Editing staff	56 hrs					1													
Editing	56 hrs							(				(							
Editing room	96 hrs																		
Editing	56 hrs																		
Final approval	40 hrs																		



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#### Final Videotape Project Gantt Chart Schedule, With Two Scriptwriters and Producer Leveled

			A.J. I	a Videotape Lucas		
VBS	Task Name	Resource Names	Duration	Start	Finish	March         April         May           21         28         06         13         20         27         03         10         17         24         01         08         15         22         29
1	Project approval		0 days	03/01	03/01	03/01
2	Scriptwriting	Scriptwriter [2]	7 days	03/01	03/08	03/08
3	Schedule shoots		15 days	03/01	03/21	
3.1	Begin scheduling		0 days	03/01	03/01	03/01
3.2	Propose shoots	Producer, client, scripwriter	15 days	03/01	03/20	03/20
3.3	Hire secretary	Producer	5 days	03/01	03/07	03/07
3.4	Schedule shoots	Secretary	10 days	03/08	03/21	03/21
3.5	Scheduling complete		0 days	03/21	03/21	03/21
4	Script approval	Client, producer	7.25 days	03/08	03/29	03/29
5	Revise script	Scriptwriter, producer	6.5 days	03/29	04/05	04/05
6	Shooting	Editor, production staff	10 days	04/05	04/19	04/19
7	Editing	Editor, editing staff, editing room	10.06 days	04/19	05/03	
8	Final approval	Client, producer, editor, editing room	7.19 days	05/03	05/12	05/12
9	Deliver video to client		0 days	05/12	05/12	05/12
						· · · · · · · · · · · · · · · · · · ·
Start inish	date: 03/01 date: 05/12	Task	] Milestone	e 🔷 Sumr	mary 🗸	
Addit	ional scriptwriter added to a	ctivity 2				

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## **Resource Loading/Leveling and Uncertainty**

- 28,282 Hours Needed
- Group Capacity
  - 21 (people) × 40 (hrs/wk) × 34 wk = 28,560 labor hrs
- Correction for Holidays
  - $-21 \times 3$  (days)  $\times 8$  (hours) = 504 labor hrs
- Vacations
  - $-11 \times 2$  (weeks)  $\times 40 = 880$  labor hrs





## **Resource Loading/Leveling and Uncertainty** *continued*

- Hours Available
  - 28,560 504 880 = 27,176
  - about 1100 less than needed
  - -28,282/27176 = 1.04
- What about
  - Workers getting sick?
  - Task not ready when worker is ready?
  - Change orders?

#### Thirty-Four-Week Resource Loading Chart for a Software Engineering Group



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## ALLOCATING SCARCE RESOURCES TO PROJECTS



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#### **Use of Software**

- Begin with Pert/CPM Schedule
- Activities examined period by period and resource by resource
- In cases where demand for resource exceeds supply, tasks considered one by one and resources assigned to these tasks based on priority rules





## Some Comments about Constrained Resources

- Scarcity of resources rarely applies to resources in general
- "Walts"





#### **Some Priority Rules**

- As soon as possible
- As late as possible
- Shortest task duration first
- Minimum slack first
- Most critical followers
- Most successor
- Most resources first




# **Choosing a Priority Rule**

#### • Schedule Slippage

amount project or set of projects delayed

• Resource Utilization

extent that resources are over or underworked

• In-Process Inventory

– amount of unfinished work in the system



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# ALLOCATING SCARCE RESOURCES TO SEVERAL PROJECTS



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#### **Pseudo activities**

- Used to link several project together
- Have duration but do not require any resources
- This approach allows a set of projects to be dealt with as though it were a single project
  - use of MSP's resource loading and leveling charts and tables





#### Multiple Projects Connected with Pseudo activities Shown on a Time Line







# **Resource Allocation and the Project** Life Cycle

#### **Project or task life cycles**





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# **GOLDRATT'S CRITICAL CHAIN**



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### Introduction

- Similar issues that trouble people about working on projects regardless of type of project
  - unrealistic due dates
  - too many changes
  - resources and data not available
  - unrealistic budget
- These issues/problems related to need to make trade-offs
- To what extent are these problems caused by human decisions and practices?



### **Three Project Scenarios**







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#### **Project Completion Time Statistics Based on Simulating Three Projects 200 Times**

	Scenario 1	Scenario 2	Scenario 3
Average	50.4	51.9	53.4
Std Dev	7.1	6.3	5.3
Max	69.4	72.7	69.3
Min	30.1	36.1	39.3
Median	50.0	51.8	53.1



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#### **Observations**

**Average Completion Times** 

Implications of Assuming Known Activity Times

Shape of the Distribution

**Worker Time Estimates** 

**Impact of Inflated Time Estimates** 

**Student Syndrome** 





#### **Multitasking**

#### **Two Small Projects**





# Alternative Gantt Charts for Projects A and B



(b)



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#### **Common Chain of Events**

- Underestimate time needed to complete project
  - assumption of known activity times and independent paths
- Project team members inflate time estimates
- Work fills available time
  - student syndrome
  - early completions not reported





#### **Common Chain of Events** *continued*

- Safety time misused
- Misused safety time results in missed deadlines
- Hidden safety time complicates task of prioritizing project activities
- Lack of clear priorities results in poor multitasking





#### **Common Chain of Events** *concluded*

- Poor multitasking increases task durations
- Uneven demand on resources also results due to poor multitasking
- More projects undertaken to ensure all resources fully utilized
- More projects further increases poor multitasking





### **Reversing the Cycle**

- Reduce number of projects assigned to each individual
- Schedule start of new projects based on availability of bottleneck resources
- Reduce amount of safety time added to individual tasks and then add some fraction back as *project buffer* 
  - activity durations set so that there is a high probability the task will not be finished on time





#### **The Critical Chain**

- Longest chain of consecutively dependent events
  - considers both precedence relationships and resource dependencies
- Project Buffer
- Feeding Buffer



## **Sample Network Diagram**





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### **Project and Feeder Buffers**





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### Reference

• Meredith, R. J. & Mantel, J. S. (1995). *Project Management – A Managerial Approach*. John Wiley & Sons, 5th Edition.