Dynamic Programming

Weighted Interval Scheduling - I terative approach

n=6 P(1)= 0 P(2)=0 3, P(3) = I4. p(4) = 05. p(s) = 36. p(6) = 3n=6

MEj3 = max(nj + MEp(j)], MEj-13)MCI] = max (2+ M[p(1)], MCO])=2 MC2]=max (4+MC07, MC13)=4 M[3] = Max (4+ M[1], M[2]) = 6 M[4]= max (7+ M[0], M[3])=7 MES] = max (2+ ME33, ME43)=8 MC6]= Max (1+ MC3], MC5])=8

M[n] = M[6] = 8 => total max value for opt Sol. is 8

Find-Solution (5)

Find-Solution (3)

Find-Solution (3)

Find-Solution (1)

Find-Solution (1)

Fund-Solution (0)

request +

Fund-Solution (0)

optimal solution is $0 = \{\text{request 1, request 3}, \text{ request 5}\}$ optimal solution value = 0 PT = 8