

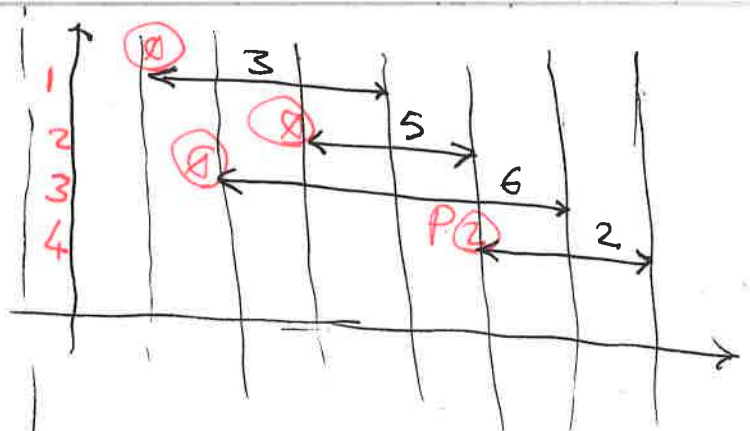
$Opt(j)$:
 if $(j == 0)$ return 0,
 return $\max(V_j + Opt(p(j)),$
 $Opt(j-1))$

$M = \{0, -1, \dots, -1\}$

$Opt(j)$:
 if $(j == 0)$ return 0
 if $(M[j] == -1)$
 $M[j] = \max(V_j + Opt(p(j)),$
 $Opt(j-1))$
 return $M[j]$

$M = \{0, -1, \dots, -1\}$

$opt(j)$:
 if $(j == 0)$ return 0
 for $(k = 1 \text{ to } j)$
 $M[k] = \max(V_k + M[p(k)],$
 $M[k-1])$
 return $M[j]$



0	1	2	3	4
0	-1	-1	-1	-1

$K = 1$

$$M[1] = \max(3 + M[0], M[0]) = 3$$

0	1	2	3	4
0	3	-1	-1	-1

$K = 2$

$$M[2] = \max(5 + M[0], M[1]) = 5$$

Select job 2

0	1	2	3	4
0	3	5	-1	-1

$K = 3$

$$M[3] = \max(6 + M[0], M[2]) = 6$$

0	1	2	3	4
0	3	5	6	-1

$K = 4$

$$M[4] = \max(2 + M[2], M[3]) = 7$$

Select job 4