I-tem 1	7	` _
2	5	25
3	٦ 3	35
Stage 3		Total
	35 reword	35
$ \begin{cases} \frac{1}{3} & \text{(10)} \\ \frac{1}{3} & \text{(9)} \end{cases} $	35	35
(8) 1	35	35
13(7)	35	35
3		\supset
f3(6)	,	•
3	,	1
· · ·	•	

S 0 £2(10) £ (6) { (2) $\xi_2(s)$ \bigcirc $\left\{ \left[6 \right] \right\}$

^

first stage

f. (10)

36 + f2(1)=0 36 24 24 + f2(4)=0 0 + f (q)=25 25

a) Max rewards is by choosing $f_{2}(10) = 25 + 25 = 50$

b) If we have to choose only one item of a weight $f_3(7) + f_1(3) = 47$

o to 1 in Dijkska's from Shortest path algorithm 6 B 5 Y 8 O 5 3 6 Ġ G ۴ 5 $\mathcal D$ C ${\mathbb B}$ A fri fn; 6 int int Ų O inf fui 5 fni 8 8 A 4 IN 5 0) 8 E 8 Ç tnj 9 5 رلو OJ8 B 4 int fui 9 ιh 5 F 0) 8 Y iH 12 9 5 ١ų 10 8 0 Ų 61 12 9 5 8 10 ιկ G

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ch 8 14 10 5 9 12 16

The shortest path is

0 -9 A -7 E -7 D -7 G -7 1 = 16