

Stage 2

$$f_2^*(S_2) = \text{Max} [R_2(x_2) + f_1^*(S_2 - x_2)]$$

$$0 \leq x_2 \leq S_2; 0 \leq S_2 \leq Q$$

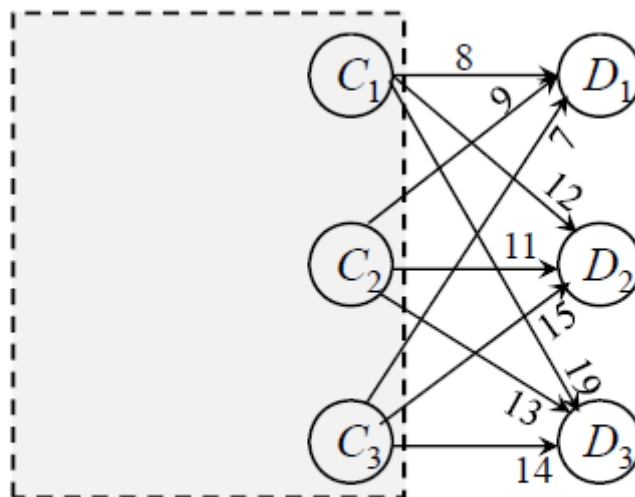
S_2	x_2	$R_2(x_2)$	$S_2 - x_2$	$f_1^*(S_2 - x_2)$	$\frac{R_2(x_2) + f_1^*(S_2 - x_2)}{f_1^*(S_2 - x_2)}$ <i>= MAX</i>	$f_2^*(S_2)$	x_2^*
0	0	0	0	0	0	0	0
1	0	0	1	7	7	7	<u>0</u>
	1	5	0	0	5		
2	0	0	2	12	12	12	0, 1
	1	5	1	7	12		
	2	6	0	0	6		
3	0	0	3	15	15	17	1
	1	5	2	12	17		
	2	6	1	7	13		
	3	3	0	0	3		

S_2	x_2	$R_2(x_2)$	$S_2 - x_2$	$f_1^*(S_2 - x_2)$	$\frac{R_2(x_2) + f_1^*(S_2 - x_2)}{f_1^*(S_2 - x_2)}$	$f_2^*(S_2)$	x_2^*
4	0	0	4	16	16	20	1
	1	5	3	15	20		
	2	6	2	12	19		
	3	3	1	7	10		
	4	-4	0	0	-4		
5	0	0	5	16	16	21	1, 2
	1	5	4	16	21		
	2	6	3	15	21		
	3	3	2	12	15		
	4	-4	1	7	3		
	5	-15	0	0	-15		
6	0	0	6	16	16	22	2
	1	5	5	16	21		
	2	6	4	16	22		
	3	3	3	15	18		
	4	-4	2	12	8		
	5	-15	1	7	-8		
	6	-30	0	0	-30		

$$f_2^*(S_2) = \text{Min} [d(x_2, S_2) + f_1^*(x_2)]$$

S_2	x_2	$d(x_2, S_2)$	$f_1^*(x_2)$	$d(x_2, S_2) + f_1^*(x_2)$	$f_2^*(S_2)$	x_2^*
C_1	B_1	8	10	18	18	B_1
	B_2	9	15	24		
	B_3	7	12	19		
C_2	B_1	12	10	22	22	B_1
	B_2	11	15	26		
	B_3	15	12	27		
C_3	B_1	19	10	29	26	B_3
	B_2	13	15	28		
	B_3	14	12	26		

Stage 3:

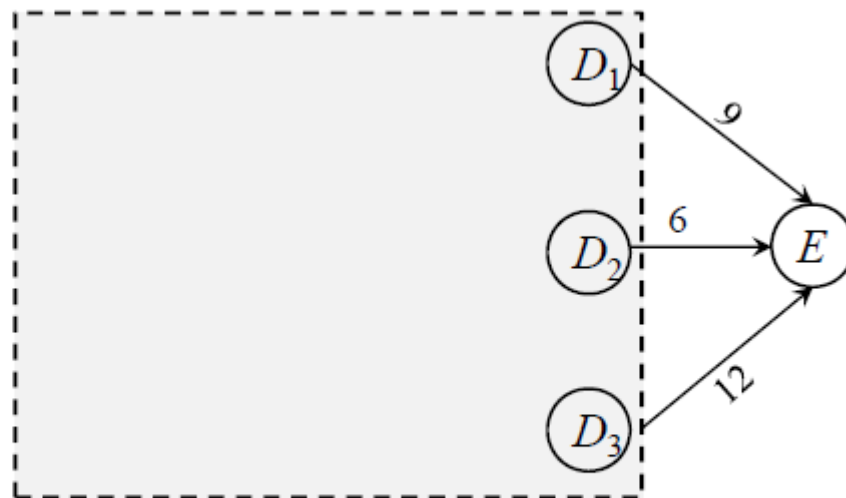


$$f_3^*(S_3) = \text{Min} [d(x_3, S_3) + f_2^*(x_3)]$$

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S_3	x_3	$d(x_3, S_3)$	$f_2^*(x_3)$	$d(x_3, S_3) + f_2^*(x_3)$	$f_3^*(S_3)$	x_3^*
D_1	C_1	8	18	26	26	C_1
	C_2	9	22	29		
	C_3	7	26	33		
D_2	C_1	12	18	30	30	C_1
	C_2	11	22	33		
	C_3	15	26	41		
D_3	C_1	19	18	37	35	C_2
	C_2	13	22	35		
	C_3	14	26	40		

Stage 4:



$$f_4^*(S_4) = \text{Min} [d(x_4, S_4) + f_3^*(x_4)]$$

