

①

	C2	C6	C4	C7	C3	C1	C5
Profit	15	5	20	8	7	20	6
weight	3	4	6	8	2	2	3
P/w	5	1.25	3.33	1	3.5	10	2

Capacity = 18

18	C6	1.25 x 2
16	C5	3
13	C4	6
7	C3	2
5	C2	3
	C1	2

$$= 20 + 15 + 7 + 20 + 6 + 1.25 \times 2$$

$$= 70.50$$

②

	C1	C3	C2	C5	C4
Profit	20	30	40	32	55
weight	5	8	10	12	15
P/w	4	3.75	4	2.66	3.66

Capacity = 20

20	C3	3.75 x 5
15	C2	10
	C1	5

$$20 + 10 + 3.75 \times 5$$

$$= 78.75$$

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	C_3	C_4	C_5	C_6	C_2	C_1	C_7
Profit	12	10	8	11	14	7	9
Weight	4	6	5	7	3	1	6
P/W	3	1.66	1.6	1.57	4.66	7	1.5

Capacity = 20

20	C_6	1.57 x 1
19	C_5	5
14	C_4	6
8	C_3	4
4	C_2	3
	C_1	1

$$= 7 + 14 + 12 + 10 + 8 + 1.57 \times 1$$

$$= 52.50$$