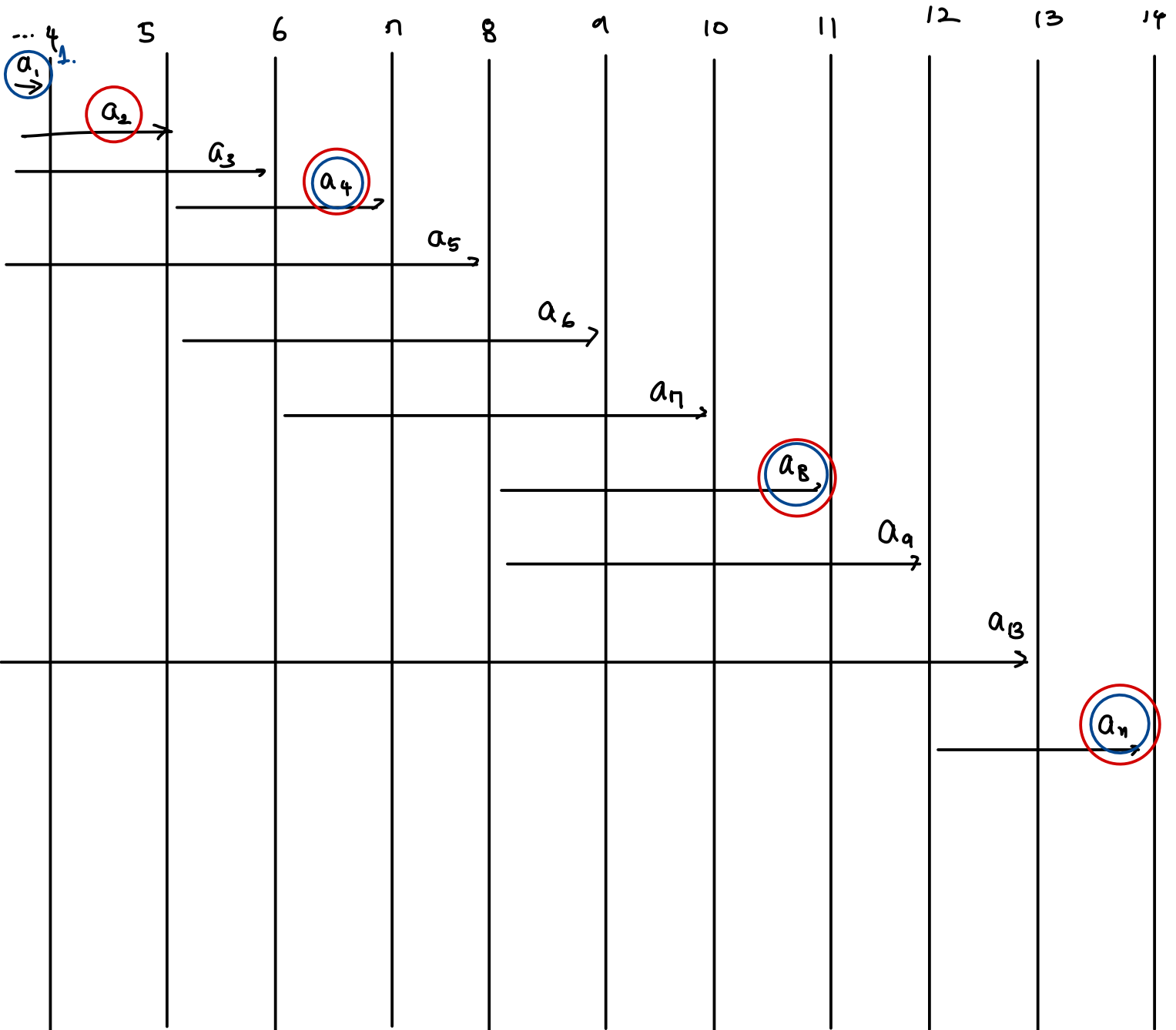


Review 9-1

2023065350 7358

1. Solve the following activity selection problem.

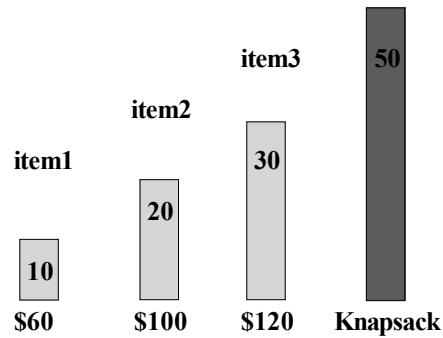
i	1	2	3	4	5	6	7	8	9	10	11
s_i	1	3	0	5	3	5	6	8	8	2	12
f_i	4	5	6	7	8	9	10	11	12	13	14



$$1. \{a_1, a_4, a_8, a_{11}\}$$

$$2. \{a_2, a_4, a_8, a_{11}\}$$

2. Solve the 0-1 knapsack and fractional knapsack problems for the following example.



(1) 0-1 knapsack

1. item2 & item3

220\$

2. item1 & item2

160\$

3. item1 & item3

180\$

\therefore we can choose item2 & item3 ,

220\$

(2) fractional knapsack

item1	item2	item3
6	5	4

First, whole of item1 = 60 \$

Second, whole of item2 = 100 \$

Third, $\frac{2}{3}$ of item3 = 80 \$

Total : 240 \$