minimazation of cost 29775

Programs vs Skills

	Skill 1	Skill 2	Skill 3	Skill 4	Skill 5	Skill 6	Skill 7	Skill 8	Skill 9	Skill 10	Skill 11	Skill 12	Skill 13	Skill 14	Skill 15	Skill 16	Skill 17	Skill 18	Skill 19	Skill 20	Skill 21	Skill 22	Skill 23	Skill 24	Skill 25	Skill 26	Skill 27	Skill 28	Skill 29	Skill 30	Skill 31	Skill 32	Skill 33	Skill 34	Skill 35	Skill 36	Skill 37	Skill 38	Skill 39	Skill 40	Skill 41
Program1	1	1	0	1	0	0	0	0	0	0	1	1	1	1	1	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
Program2	0	0	0	0	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0
Program3	0	0	0	0	0	1	0	0	1	0	0	0	0	0	1	0	0	0	1	1	1	1	1	1	1	0	1	0	1	0	0	0	0	0	1	0	0	0	0	0	0
Program4	0	1	0	1	0	0	0	1	1	0	0	1	0	0	0	1	0	0	0	0	1	0	0	0	1	0	0	1	0	0	1	0	0	1	0	0	0	0	0	0	1
Program5	0	1	1	1	0	0	0	0	1	0	0	1	0	0	0	1	0	0	0	0	0	1	0	1	0	0	0	0	0	0	1	0	0	0	0	1	0	0	1	1	0
Program6	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	1	1	0	0	1	1	0	0	0	0	0	1
Program7	0	0	0	0	1	1	0	0	0	0	0	0	0	0	1	0	0	1	0	1	1	0	0	0	0	1	0	0	0	1	0	1	0	1	0	0	0	1	0	0	0
Program8	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	0	1	0	1	0	1	1	1	1	0	0	1	0	1	1	0	0	0	0	0	0	1	0	0	0	0
Program9	1	1	1	1	0	0	0	0	0	0	0	1	1	1	0	0	0	0	1	0	1	1	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	1	0	0
Program10	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	1	1	0	0	0	0
Program11	0	0	0	0	0	0	0	1	0	1	0	1	0	0	0	0	0	0	0	1	1	0	0	0	1	0	1	1	0	1	0	0	1	1	0	1	0	0	0	0	0
Program12	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	1	0	1	0	1	0	1	1	0	1	0	0	1	1	1	0	0	0
Program13	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	1	0	1	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1
Program14	1	0	0	0	1	1	0	0	0	0	0	0	0	0	0	1	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	1	0	0	0	0	1
Program15	1	0	1	0	1	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	1	0	0	1

Conflict Constraint

<= 1   1

1–3	9–15	11–12		Skill 1	Skill 2	Skill 3	Skill 4	Skill 5	Skill 6	Skill 7	Skill 8	Skill 9	Skill 10	Skill 11	Skill 12	Skill 13	Skill 14	Skill 15	Skill 16	Skill 17	Skill 18	Skill 19	Skill 20	Skill 21	Skill 22	Skill 23	Skill 24	Skill 25	Skill 26	Skill 27	Skill 28	Skill 29	Skill 30	Skill 31	Skill 32	Skill 33	Skill 34	Skill 35	Skill 36	Skill 37	Skill 38	Skill 39	Skill 40	Skill 41
0	1	1	Senior Manager	0	1	0	1	0	0	0	0	0	0	1	1	1	1	1	0	1	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0
0	0	0	Project Manager	0	1	0	1	0	0	0	0	0	0	1	1	1	1	1	0	1	0	0	1	1	1	1	0	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1
0	0	0	Project Manager	0	1	0	1	0	0	0	0	0	0	1	1	1	1	1	0	1	0	0	1	1	1	1	0	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	0
1	1	1	Professional	1	1	0	1	1	1	1	0	1	0	0	1	0	0	0	1	0	0	0	1	1	0	1	1	0	1	0	1	0	1	0	1	1	0	1	0	1	1	1	1	0
1	0	1	Professional	1	1	0	1	1	1	1	0	1	0	0	1	0	0	0	1	0	0	0	1	1	0	1	1	0	1	0	1	0	1	0	1	1	0	1	0	1	1	1	1	0
0	1	1	Professional	1	1	0	1	1	1	1	0	1	0	0	1	0	0	0	1	0	0	0	1	1	0	1	1	0	1	0	1	0	1	0	1	1	0	1	0	1	1	1	1	1
0	1	1	Sales person	1	1	0	0	0	0	0	0	1	1	0	0	0	1	0	0	1	0	0	1	1	0	1	1	0	1	1	0	1	0	0	0	1	0	1	0	1	1	1	1	1
0	1	1	Sales person	1	1	0	0	0	0	0	0	1	1	0	0	0	1	0	0	1	0	0	1	1	0	1	1	0	1	1	0	1	0	0	0	1	0	1	0	1	1	1	1	1
0	1	0	Technician	1	1	1	0	1	0	0	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1
1	0	0	Technician	1	1	1	0	1	0	0	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1
0	0	0	Technician	1	1	1	0	1	0	0	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1
0	1	0	Administrative Assistant	1	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	0
0	1	0	Administrative Assistant	1	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	0

Skill Check

	Skill 1	Skill 2	Skill 3	Skill 4	Skill 5	Skill 6	Skill 7	Skill 8	Skill 9	Skill 10	Skill 11	Skill 12	Skill 13	Skill 14	Skill 15	Skill 16	Skill 17	Skill 18	Skill 19	Skill 20	Skill 21	Skill 22	Skill 23	Skill 24	Skill 25	Skill 26	Skill 27	Skill 28	Skill 29	Skill 30	Skill 31	Skill 32	Skill 33	Skill 34	Skill 35	Skill 36	Skill 37	Skill 38	Skill 39	Skill 40	Skill 41
Senior Manager	2	1	1	2	1	1	1	0	1	1	3	1	1	1	1	2	1	1	2	1	1	1	2	1	2	2	1	1	1	2	1	1	1	1	1	1	0	0
Project Manager	0	1	0	2	1	1	1	1	1	1	3	3	1	1	1	2	1	2	0	2	1	2	1	1	1	1	1	1	2	2	0	1	0	1	2	1	1	1
Project Manager	0	1	0	2	1	1	1	1	1	1	3	3	1	1	1	2	1	2	0	2	1	2	1	1	1	1	1	1	2	2	0	1	0	1	2	1	1	1
Professional	2	2	1	2	2	1	2	1	2	1	3	4	1	1	1	0	2	1	2	1	1	1	1	1	1	1	1	1	3	1	1	1	1	2	1	1	1	1
Professional	2	1	1	2	2	1	2	1	2	0	3	2	1	1	1	2	2	1	2	1	1	2	1	1	1	1	1	1	2	2	1	1	1	2	1	1	1	1
Professional	1	2	1	3	1	1	1	2	2	2	0	2	1	1	1	1	1	1	1	1	2	1	1	1	1	1	2	2	2	1	1	3	2	2	2	2	1
Sales person	1	2	1	3	0	0	1	2	2	0	2	1	1	1	0	1	0	1	0	1	1	1	1	1	1	2	2	1	2	1	1	1	1	3	2	1	1	1
Sales person	1	2	1	3	0	0	1	2	2	0	2	1	1	1	0	1	0	1	0	1	1	1	1	1	1	2	2	1	2	1	1	1	1	3	2	1	1	1
Technician	1	1	2	1	1	1	1	1	0	1	0	2	0	1	0	1	0	1	1	1	0	0	1	0	0	1	0	0	2	1	1	1	1
Technician	2	1	1	1	3	2	2	2	1	0	1	1	2	1	1	0	1	0	1	1	1	0	0	0	1	0	0	0	2	0	1	1	1
Technician	1	1	1	2	1	1	1	0	1	1	1	1	1	0	1	1	0	0	1	1	0	0	1	1	1	1	2	1	1	1	1
Administrative Assistant	1	1	1	2	1	1	0	0	0	1	1	1	1	0	1	0	0	1	0	1	1	1	1	0	0	1	1	1	1	1	1
Administrative Assistant	1	1	1	2	1	0	0	0	0	1	1	1	1	0	0	0	0	1	0	1	1	1	1	0	0	1	1	1	1	1	0

Decision Variables

<= 17   17   Day Constraint

	Decision Variables	Program 1	Program 2	Program 3	Program 4	Program 5	Program 6	Program 7	Program 8	Program 9	Program 10	Program 11	Program 12	Program 13	Program 14	Program 15	Total
15	Senior Manager	0	0	0	0	0	0	0	0	1	1	0	0	1	1	0	2700
13	Project Manager	0	1	0	1	0	0	0	1	0	1	0	1	0	0	0	2775
13	Project Manager	0	1	0	1	0	0	0	1	0	1	0	1	0	0	0	2775
17	Professional	1	0	0	0	1	0	0	0	0	0	0	1	0	1	3000
17	Professional	1	1	0	0	0	0	0	0	1	0	0	0	0	1	3000
16	Professional	0	0	1	0	1	0	0	1	1	0	0	0	0	0	2675
14	Sales person	0	0	0	1	0	0	1	1	1	0	0	0	0	0	2375
14	Sales person	0	0	0	1	0	0	1	1	1	0	0	0	0	0	2375
10	Technician	0	0	0	0	1	0	1	0	0	0	0	0	0	1	1700
12	Technician	1	0	0	0	0	1	0	0	0	0	0	0	0	0	1700
12	Technician	0	0	0	0	1	1	0	0	0	1	0	0	1	0	2600
11	Administrative Assistant	0	0	0	0	0	0	1	0	1	1	0	0	0	0	900
11	Administrative Assistant	0	0	0	0	0	0	1	0	1	1	0	0	0	0	900

Cost and Duration

	Program 1	Program 2	Program 3	Program 4	Program 5	Program 6	Program 7	Program 8	Program 9	Program 10	Program 11	Program 12	Program 13	Program 14	Program 15
En. Cost	500	300	500	575	800	400	200	1.000	200	500	700	600	400	900	700
Duration	2	2	4	3	2	3	5	2	3	3	2	4	3	4	3

Professional / Technician Constraint

	1–3	Program 2		Program 4	Program 5	Program 6	Program 7	Program 8	9–15	Program 10	11–12		Program 13	Program 14
<= 2 Professional Constraint	2	2	0	1	1	2	1	0	2	2	2	0	2	1
2 Technician Constraint	1	1	0	0	2	1	2	0	2	1	0	0	0	1