

Online 2 Set A

You are working as a programmer for a part-time job app. This app contains the list of N jobs, each job j_i contains the start time s_i (24-hour format), duration d_i and difficulty level l_i , where each job pays M dollars. You have to add a feature here such that any user can input a time range A to B (24-hour format) for the day, e.g., 10 to 18, and the app will recommend jobs within that time range such that his earning is maximized. *You guessed right, you can't do two jobs at the same time.*

- Take the list of N jobs, M , A and B as input.
- Write a program to recommend jobs for the above scenario using a greedy algorithm.

Sample Input	Sample output
N s_1, d_1, l_1 ... s_N, d_N, l_N M $A B$	
6 5 4 4 13 1 1 4 8 4 11 2 3 10 2 5 16 1 2 20 10 14	Recommended jobs: job5 starts at 10, ends at 12, difficulty 5 job2 starts at 13, ends at 14, difficulty 1 expected earning 40 dollars
3 16 1 2 15 1 3 14 2 1 12 15 18	Recommended jobs: job2 starts at 15, ends at 16, difficulty 3 job1 starts at 16, ends at 17, difficulty 2 expected earning 24 dollars