

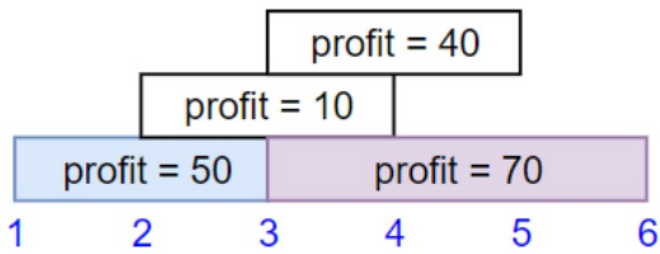
1235. Maximum Profit in Job Scheduling

Hard 304 5 Add to List Share

We have `n` jobs, where every job is scheduled to be done from `startTime[i]` to `endTime[i]`, obtaining a profit of `profit[i]`.

You're given the `startTime`, `endTime` and `profit` arrays, you need to output the maximum profit you can take such that there are no 2 jobs in the subset with overlapping time range.

If you choose a job that ends at time `x` you will be able to start another job that starts at time `x`.

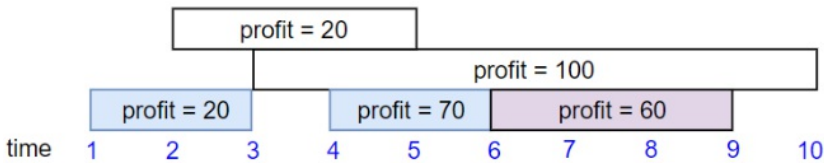


Input: `startTime = [1,2,3,3], endTime = [3,4,5,6], profit = [50,10,40,70]`

Output: 120

Explanation: The subset chosen is the first and fourth job. Time range `[1-3]+[3-6]`, we get profit of `120 = 50 + 70`.

Example 2:

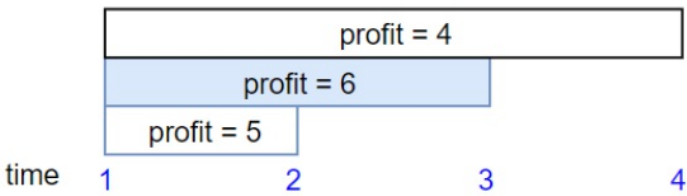


Input: `startTime = [1,2,3,4,6], endTime = [3,5,10,6,9], profit = [20,20,100,70,60]`

Output: 150

Explanation: The subset chosen is the first, fourth and fifth job. Profit obtained `150 = 20 + 70 + 60`.

Example 3:



Input: `startTime = [1,1,1], endTime = [2,3,4], profit = [5,6,4]`

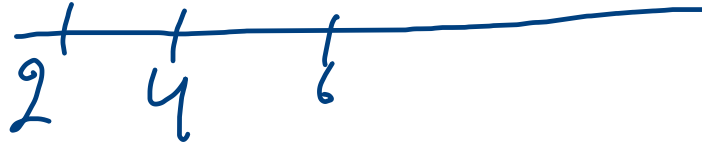
Output: 6

sort on the basis of end time and apply LIS over profit.

[4, 2, 4, 8, 2]

[5, 5, 5, 10, 8]

[1, 2, 8, 10, 4]



(4 5 1) (2 5 2) (4 5 8) (2 8 4) (8 10 10)
1 2 8 8 14