

LeetCode

Description

Discussion (13)

Solutions (1.1K)

Submissions

1235. Maximum Profit in Job Scheduling

Hard

4.7K

55

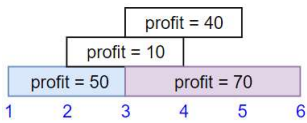
Companies

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, return the maximum profit you can take such that there are no two 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 .

Example 1:

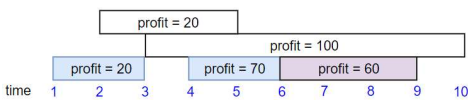


Input: $startTime = [1,2,3,3]$, $endTime = [3,4,5,6]$, $profit = [50,10,40,70]$

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:

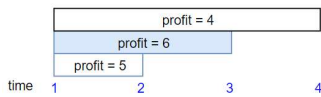


Input: $startTime = [1,2,3,4,6]$, $endTime = [3,5,10,6,9]$, $profit = [20,20,100,70,60]$

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

Constraints:

- $1 \leq startTime.length == endTime.length == profit.length \leq 5 * 10^4$
- $1 \leq startTime[i] < endTime[i] \leq 10^9$
- $1 \leq profit[i] \leq 10^4$

Accepted 171.9K

Submissions 321K

Acceptance Rate 53.5%

Seen this question in a real interview before?

1/4

Yes

No

Similar Questions

Related Topics

Hint

Java

Auto

```
1 class Solution {
2     public int jobScheduling(int[] startTime, int[] endTime, int[] profit) {
3
4     }
5 }
```

Console

Run

Submit

https://leetcode.com/problems/maximum-profit-in-job-scheduling/description/

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