## work Allocate sum

Problem Submissions Leaderboard Discussions

Given an array of jobs where every job has a deadline and associated profit if the job is finished before the deadline. It is also given that every job takes a single unit of time, so the minimum possible deadline for any job is 1. Maximize the total profit if only one job can be scheduled at a time.

## **Input Format**

4

4 20

1 10 1 40

1 30

**Output Format** 

60

## Sample Input 0

```
4
4 20
1 10
1 40
1 30
```

Sample Output 0

60

```
Contest ends in a month

Submissions: 68

Max Score: 10

Difficulty: Medium

Rate This Challenge:

\( \dots \dots
```

**Q** Search

```
Java 8
1 → import java.io.*;
   import java.util.*;
4 → public class Solution {
 5
        public static void main(String[] args) {
 6
            /* Enter your code here. Read input from STDIN. Print output to STDOUT. Your class should be named Solution. */
 7
            Scanner z=new Scanner(System.in);
 8
            int n=z.nextInt();
 9
            Integer deadline[]=new Integer[n];
10
11
            Integer profit[]=new Integer[n];
12
            int maxd=0;
            for(int i=0;i<n;i++){</pre>
13 ▼
                deadline[i]=z.nextInt();
14
                profit[i]=z.nextInt();
15 →
                maxd=Math.max(maxd,deadline[i]);
16 🔻
17
            for(int i=0;i<n;i++){</pre>
18 ▼
                for(int j=i+1;j<n;j++){</pre>
19 🔻
                    if(profit[i]<profit[j]){</pre>
20 🔻
                         int t=profit[i];
21 🔻
                         profit[i]=profit[j];
22 🔻
23 🔻
                         profit[j]=t;
24
                         t=deadline[i];
25 🔻
                         deadline[i]=deadline[j];
26 🔻
                         deadline[j]=t;
27 🔻
28
                }
29
30
            // Arrays.sort(deadline,Collections.reverseOrder());
31
            // Arrays.sort(profit,Collections.reverseOrder());
32
            int arr[]=new int[maxd+1];
33 🔻
            int sum=0;
34
35 🔻
            for(int i=0;i<n;i++){</pre>
                if(arr[deadline[i]]==0){
36 ▼
37 ▼
                     arr[deadline[i]]=profit[i];
                     sum+=arr[deadline[i]];
38 ▼
39
                else if(arr[deadline[i]]!=0){
40
                     for(int j=deadline[i];j>0;j--){
41
                         if(arr[j]==0){
42 🔻
                             arr[j]=profit[i];
43
                             sum+=arr[j];
44
                             break;
45
                    }
46
47
48
49
            System.out.print(sum);
50
51
52 }
                                                                                                                          Line: 1 Col: 1
```

<u>Upload Code as File</u> Test against custom input

Run Code Submit Code