work Allocate sum

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: 53
Max Score: 10
Difficulty: Medium

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Java 15

```java
import java.io.*;
import java.util.*;

public class Solution {

    public static void main(String[] args) {
        Scanner sc = new Scanner(System.in);
        int n = sc.nextInt();
        int day[] = new int[n];
```

```
        int profit[] = new int[n];
        int max=Integer.MIN_VALUE;
        for (int i = 0; i < n; i++) {
            day[i] = sc.nextInt();
            profit[i] = sc.nextInt();
            max=Math.max(max,day[i]);
        }

        for(int i=0;i<n;i++){
            for(int j=i+1;j<n;j++){
                if(profit[i]<profit[j]){
                    int temp=profit[i];
                    profit[i]=profit[j];
                    profit[j]=temp;

                    temp=day[i];
                    day[i]=day[j];
                    day[j]=temp;
                }
            }
        }
         int tpro=0;
        int arr[]=new int[max+1];

        for(int i=0;i<n;i++){
            for(int j=day[i];j>=1;j--){
                if(arr[j]==0){
                    arr[j]=profit[i];
                    break;
                }
            }
        }
        for(int i=0;i<arr.length;i++){
            tpro+=arr[i];
        }
        System.out.print(tpro);
    }
}
```

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Line: 1 Col: 1

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