


Status	Finished
Started	Monday, 23 December 2024, 5:33 PM
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Duration	4 days 10 hours

Question **1**

Correct

Marked out of 1.00

 Flag question

You are given a two-dimensional 3*3 array starting from A [0][0]. You should add the alternate elements of the array and print its sum. It should print two different numbers the first being sum of A 0 0, A 0 2, A 1 1, A 2 0, A 2 2 and A 0 1, A 1 0, A 1 2, A 2 1.

Input Format

First and only line contains the value of array separated by single space.

A 0 0	A 0 1	A 0 2
4	6	9
A 1 0	A 1 1	A 1 2
2	5	8
A 2 0	A 2 1	A 2 2
1	3	7

Output Format

First line should print sum of A 0 0, A 0 2, A 1 1, A 2 0, A 2 2
Second line should print sum of A 0 1, A 1 0, A 1 2, A 2 1

SAMPLE INPUT

1 2 3 4 5 6 7 8 9

SAMPLE OUTPUT

25
20

Answer: (penalty regime: 0 %)

```
1 #include<stdio.h>
2 int main()
3 {
4     int arr[3][3];
5     for(int i=0;i<3;i++)
6     {
7         for(int j=0;j<3;j++)
8         {
9             scanf("%d",&arr[i][j]);
10        }
11    }
12    int odd=0,even=0;
13    for(int i=0;i<3;i++)
14    {
15        for(int j=0;j<3;j++)
16        {
17            if((i+j)%2!=0)
18                odd+=arr[i][j];
19            else
20                even+=arr[i][j];
21        }
22    }
23    printf("%d\n%d",even,odd);
24 }
```

	Input	Expected
✓	1 2 3 4 5 6 7 8 9	25 20
✓	21 422 423 443 586 645 657 846 904	2591 2356

Passed all tests! ✓

Question **2**

Correct

Marked out of 5.00

Flag question

Microsoft has come to hire interns from your college. N students got shortlisted out of which few were males and a few females. All the students have been assigned talent levels. Smaller the talent level, lesser is your chance to be selected. Microsoft wants to create the result list where it wants the candidates sorted according to their talent levels, but there is a catch. This time Microsoft wants to hire female candidates first and then male candidates.

The task is to create a list where first all-female candidates are sorted in a descending order and then male candidates are sorted in a descending order.

Input Format

The first line contains an integer N denoting the number of students. Next, N lines contain two space-separated integers, ai and bi.

The first integer, ai will be either 1(for a male candidate) or 0(for female candidate).

The second integer, b_i will be the candidate's talent level.

Constraints

$$1 \leq N \leq 10^5$$

$$0 \leq a_i \leq 1$$

$$1 \leq b_i \leq 10^9$$

Output Format

Output space-separated integers, which first contains the talent levels of all female candidates sorted in descending order and then the talent levels of male candidates in descending order.

SAMPLE INPUT

5

0 3

1 6

0 2

0 7

1 15

SAMPLE OUTPUT

7 3 2 15 6

Answer: (penalty regime: 0 %)

```
1 #include<stdio.h>
2 struct data
3 {
4     int gen;
5     int tal;
6 };
7 int main()
8 {
9     int n;
10    scanf("%d",&n);
11    struct data a[n];
12    for(int i=0;i<n;i++)
13        scanf("%d %d",&a[i].gen,&a[i].tal);
14    for(int i=0;i<n;i++)
15    {
16        for(int j=0;j<n-1;j++)
17        {
18            if(a[j].tal<a[j+1].tal)
19            {
20                struct data temp=a[j];
21                a[j]=a[j+1];
22                a[j+1]=temp;
23            }
24        }
25    }
26    for(int i=0;i<n;i++)
27    {
28        if(a[i].gen==0)
29            printf("%d ",a[i].tal);
30    }
31    for(int i=0;i<n;i++)
32    {
33        if(a[i].gen==1)
34            printf("%d ",a[i].tal);
35    }
36 }
```

	Input	Expected	
✓	5 0 3 1 6 0 2 0 7 1 15	7 3 2 15 6	7
✓	6 0 1 0 26 0 39 0 37 0 7 0 13	39 37 26 13 7 1	3
✓	12 1 12 1 14 1 18 1 1 1 2 1 3 1 5 1 8 1 9 1 10 0 29 0 31	31 29 18 14 12 10 9 8 5 3 2 1	3

Print the total amount he has to return to farmers to solve the conflict.

Constraints:

$$1 \leq N \leq 100$$

$$1 \leq X1 \leq X2 \leq 1000$$

$$1 \leq Y1 \leq Y2 \leq 1000$$

$$1 \leq C \leq 1000$$

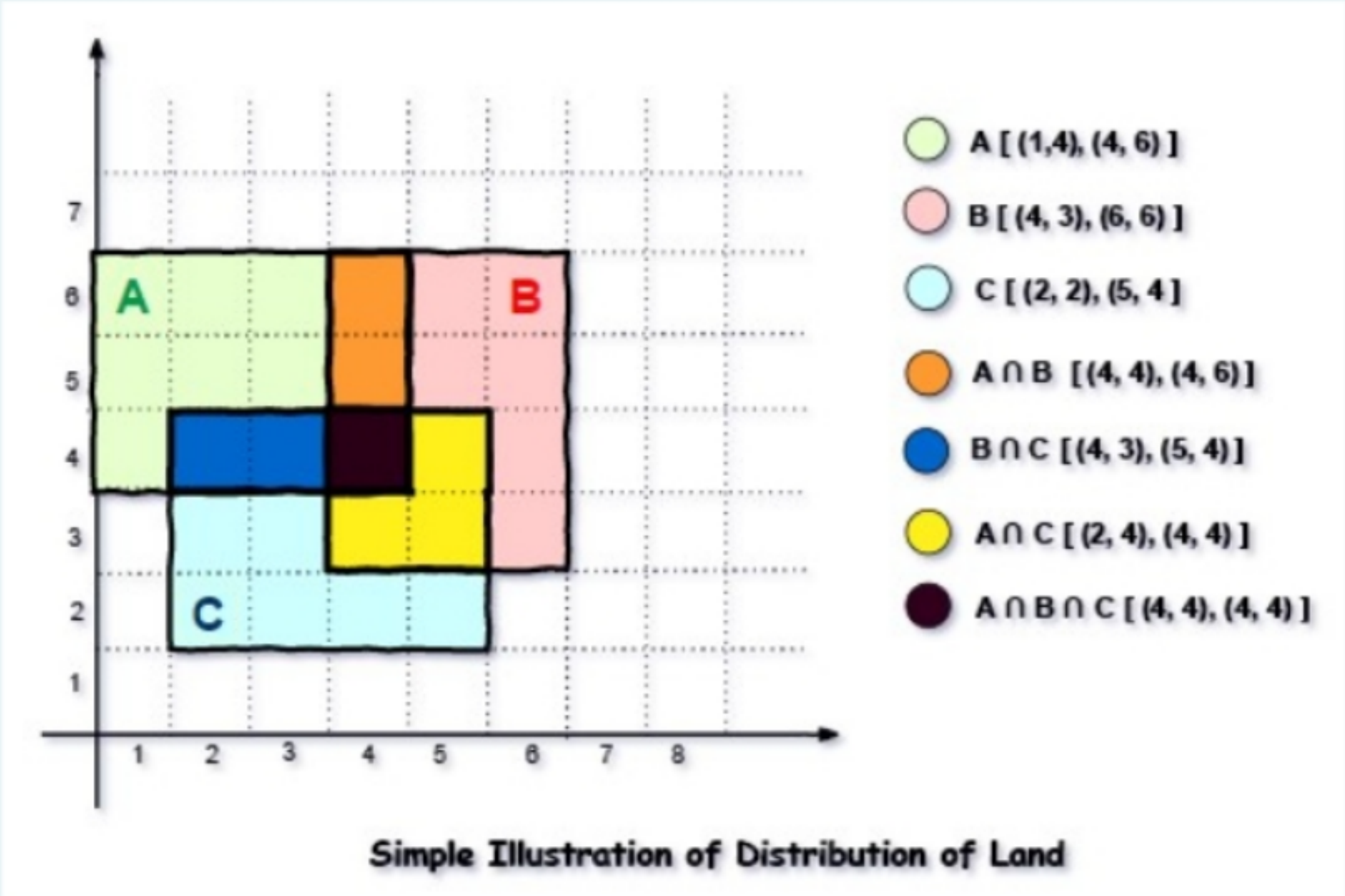
SAMPLE INPUT

3
1 4 4 6 1
4 3 6 6 2
2 2 5 4 3

SAMPLE OUTPUT

35

Explanation



For given sample input (see given graph for reference), compensation money for different farmers is as follows:

Farmer with land area A: $C_1 = 5 * 1 = 5$

Farmer with land area B: $C_2 = 6 * 2 = 12$

Farmer with land area C: $C_3 = 6 * 3 = 18$

Total Compensation Money = $C_1 + C_2 + C_3 = 5 + 12 + 18 = 35$

Answer: (penalty regime: 0 %)

```
1 #include<stdio.h>
2 int main()
3 {
4     int i,j,n,x1,x2,y1,y2,t=0;
5     long long total=0;
6     int arr[1001][1001]={0};
7     scanf("%d",&n);
8     while(n--)
9     {
10         scanf("%d %d %d %d %d",&x1,&y1,&x2,&y2,&t);
11         for(i=x1;i<=x2;i++)
12         {
13             for(j=y1;j<=y2;j++)
14             {
15                 if(arr[i][j]==0)
16                     arr[i][j]+=t;
17                 else if(arr[i][j]>0)
18                     arr[i][j]=(-1)*(arr[i][j]+t);
19                 else if(arr[i][j]<0)
20                     arr[i][j]-=t;
21             }
22         }
23     }
24     for(i=1;i<1001;i++)
25     {
26         for(j=1;j<1001;j++)
27         {
28             if(arr[i][j]<0)
29                 total+=arr[i][j];
30         }
31     }
32     printf("%lld\n",(-1)*total);
33     return 0;
34 }
```

	Input	Expected	Got	
✓	3 1 4 4 6 1 4 3 6 6 2 2 2 5 4 3	35	35	✓
✓	1 48 12 49 27 8	0	0	✓
✓	3 88 34 99 76 44 82 65 94 100 81 58 16 65 66 7	10500	10500	✓

Passed all tests! ✓