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.

A00	A 0 1	A02
4	6	9
A10	A11	A12
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

Output Format

First line should print sum of A 0 0, A 0 2, A 11, 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

123456789

SAMPLE OUTPUT

20

25

Answer: (penalty regime: 0 %)

```
#include<stdio.h>
2
    int main()
 3 🔻
         int arr[3][3];
 4
 5
         for(int i=0;i<3;i++)
 6 *
 7
             for(int j=0; j<3; j++)</pre>
 8 *
                  scanf("%d",&arr[i][j]);
 9
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++)</pre>
16 🔻
             {
                  if((i+j)%2!=0)
17
                 odd+=arr[i][j];
18
                 else
19
20
                 even+=arr[i][j];
```

212223

24 }

printf("%d\n%d",even,odd);

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

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

first and then male candidates.

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 O(for female candidate).

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

Constraints

 $1 <= bi <= 10^9$

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

03

5

16

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 03

16

0 2

07

115

SAMPLE OUTPUT

7 3 2 15 6

Answer: (penalty regime: 0 %)

```
#include<stdio.h>
 2
    struct data
 3 ₹ {
 4
         int gen; int tal;
 5
    };
 6
    int main()
 7 ▼ {
 8
         int n;
 9
         scanf("%d",&n);
         struct data a[n];
10
         for(int i=0;i<n;i++)</pre>
11
12
         scanf("%d %d",&a[i].gen,&a[i].tal);
13
         for(int i=0;i<n-1;i++)</pre>
14 ▼
15
             for(int j=0; j< n-i-1; ++j)
16 🔻
                  if(a[j].tal<a[j+1].tal)</pre>
17
18 🔻
                      struct data temp=a[j];
```

a[j]=a[j+1];

a[j+1]=temp;

19

```
a[j+1]=temp;
21
22
23
24
         for(int i=0;i<n;i++)</pre>
25
26 ▼
             if(a[i].gen==0)
27
             printf("%d ",a[i].tal);
28
29
30
         for(int i=0;i<n;i++)</pre>
31 ▼
             if(a[i].gen==1)
32
             printf("%d ",a[i].tal);
33
         }
34
    }
35
```

	Input	Expected
~	5 0 3 1 6 0 2 0 7 1 15	7 3 2 15 6
~	6 0 1 0 26 0 39 0 37 0 7 0 13	39 37 26 13 7 1
~	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
~	12 0 12 1 12 0 12 1 12 0 12 1 12 0 12 1 12 1 12 1 12 1 12 1 12	12 12 12 12 12 12 12 12

Question **3**

Correct

Marked out of 1.00

Flag question

tired of doing hard work, decided to sell all his farmland and to live rest of his life with that money. No other farmer is rich enough to buy all his land so he decided to partition the land into rectangular plots of different sizes with different cost per unit area. So, he sold these plots to the farmers but made a mistake. Being illiterate, he made partitions that could be overlapping. When the farmers came to know about it, they ran to him for compensation of extra money they paid to him. So, he decided to return all the money to the farmers of that land which was overlapping with other farmer's land to settle down the conflict. All the portion of conflicted land will be taken back by the landlord.

Shyam Lal, a wealthy landlord from the state of Rajasthan, being an old fellow and

calculate the total amount of money to return back to farmers with the same cost they had purchased from him. Suppose,

To decide the total compensation, he has to

To decide the total compensation, he has to calculate the total amount of money to return back to farmers with the same cost they had purchased from him. Suppose, Shyam Lal has a total land area of 1000 x 1000 equal square blocks where each

block is equivalent to a unit square area which can be represented on the co-

Shyam Lal to accomplish this task.

The first line of the input contains an

ordinate axis. Now find the total amount of money, he has to return to the farmers. Help

Input Format:

integer **N**, denoting the total number of land pieces he had distributed. Next **N** line contains the **5** space separated integers **(X1, Y1)**, **(X2, Y2)** to represent a rectangular piece of land, and cost per unit area **C**.

first and last square block on the diagonal of the rectangular region.

(X1, Y1) and (X2, Y2) are the locations of

Output Format:

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

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

Constraints:

$$1 \le N \le 100$$

$$1 \le X1 \le X2 \le 1000$$

$$1 \le Y1 \le Y2 \le 1000$$

$$1 \le C \le 1000$$

SAMPLE INPUT

14461

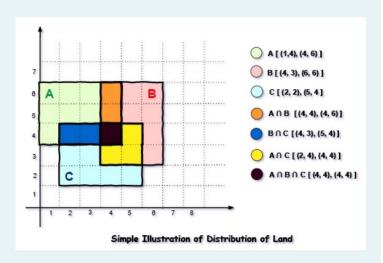
3

43662

22543

SAMPLE OUTPUT

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 %)

```
#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);
        while(n--)
8
 9 *
        {
             scanf("%d %d %d %d %d",&x1,&y1,&x2,&y2,&t);
10
11
             for(i=x1;i<=x2;i++)</pre>
12 🔻
             {
13
                 for(j=y1; j<=y2; j++)</pre>
14 ▼
                     if(arr[i][j]==0)
15
                     arr[i][j]+=t;
16
                     else if(arr[i][j]>0)
17
                     arr[i][j]=(-1)*(arr[i][j]+t);
18
                     else if(arr[i][j]<0)</pre>
19
```

arr[i][j]-=t;

20

```
arr[i][j]-=t;
20
21
22
23
         for(i=1;i<1001;i++)
24
25 ▼
26
             for(j=1;j<1001;j++)
27 🔻
                 if(arr[i][j]<0)</pre>
28
                 total+=arr[i][j];
29
30
31
         printf("%lld\n",(-1)*total);
32
         return 0;
33
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! 🗸