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ECE D

Questiontext1

Youaregivenatwo-dimensional3*3arraystartingfromA[0][0]. Youshouldaddthealternateelementsofthearray and printits 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, A10, A12, A21.

InputFormat

Firstandonlylinecontainsthevalueofarrayseparatedbysingle space.

OutputFormat

FirstlineshouldprintsumofA00,A02,A11,A20,A22 SecondlineshouldprintsumofA01,A10,A12,A21

SAMPLEINPUT

123456789

SAMPLEOUTPUT

25

20

```
1 #include<stdio.h>
    int main(){
       int arr[3][3];
        for(int i=0;i<3;i++){
            for(int j=0;j<3;j++){
                scanf("%d",&arr[i][j]);
      int odd=0,even=0;
11
        for(int i=0;i<3;i++)
            for(int j=0;j<3;j++)
14 +
               if((i+j)%2!=0)
15
                odd+=arr[i][j];
17
                else
                even+=arr[i][j];
18
        printf("%d\n%d",even,odd);
21
```

	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	~

Questiontext2

Microsofthascometohireinternsfromyourcollege.Nstudentsgot shortlisted out of which few were males and a few females.Allthestudentshavebeenassignedtalentlevels.Smallerthe talent level, lesser is your chance to be selected.

Microsoftwantstocreatetheresultlistwhereitwantsthecandidates sorted according to their talent levels, but there isacatch. This time Microsoftwantstohire female candidates first and then male candidates.

Thetaskistocreatealistwherefirstall-femalecandidates are sorted in a descending order and then male candidates are sorted in adescending order. Input

Format

The first line contains an integer N denoting the number of students.

Next,Nlinescontaintwospace-separated integers, ai and bi.

The first integer, aiwill be either 1 (for amale candidate) or 0 (for female candidate).

Thesecondinteger, biwillbethecandidate's talentlevel. Constraints

```
1<=N<=105
```

0 < = ai < = 1

1<=bi<=109

OutputFormat

Outputspace-separatedintegers, which first contains the talent levels of all female candidates sorted in descending

orderandthenthetalentlevelsofmalecandidatesindescending order.

SAMPLEINPUT

5

03

16

02

07

115

SAMPLEOUTPUT

7 3 2 15 6

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

Questiontext3

ShyamLal, awealthylandlord from the state of Rajasthan, being an old fellow and tired of doing hard work, decided to sellallhis farmland and to liverest 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. Beingilliterate, 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 land lord.

Todecidethetotalcompensation,hehastocalculatethetotalamount of money to return back to farmers with the samecosttheyhadpurchasedfromhim.Suppose,ShyamLalhasa total land area of 1000 x 1000 equal square blocks whereeachblockisequivalenttoaunitsquareareawhichcanbe represented on the co-ordinate axis. Now find the totalamountofmoney,hehastoreturntothefarmers.HelpShyamLal to accomplish this task.

InputFormat:

The first line of the input contains an integer *N*, denoting the total number of land pieces he had distributed. Next *N* line contains the *5* spaces eparated integers (*X1,Y1*),(*X2,Y2*) to represent a rectangular piece of land, and cost per unitarea *C*.

(X1,Y1)and(X2,Y2)arethelocationsoffirstandlastsquareblock on the diagonal of the rectangular region.

OutputFormat:

Printthetotalamounthehastoreturntofarmerstosolvetheconflict.

Constraints:

1≤N≤100

1\(\leq X1\)\(\leq X2\)\(\leq 1000\)

1\le Y1\le Y2\le 1000

 $1 \le C \le 1000$

SAMPLEINPUT

3

14461

43662

22543

SAMPLEOUTPUT

35

Explanation

87vk

Forgivensampleinput(seegivengraphforreference), compensation money for different farmers is as follows:

Farmer with land area A: C1 = 5 * 1 = 5

FarmerwithlandareaB:C2=6*2=12

FarmerwithlandareaC:C3=6*3=18

TotalCompensationMoney=C1+C2+C3=5+12+18=35

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	~