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Questiontext1

Youaregivenatwo-dimensional3*3arraystartingfromA[0][0]. Youshouldaddthealternateelementsofthearray andprintitssum.ltshouldprinttwodifferentnumbersthefirstbeing 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.

vk

OutputFormat

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

SAMPLEINPUT

123456789

SAMPLEOUTPUT

25

20

```
1 #include<stdio.h>
     int main(){
         /*int s1=0,s2=0;*/
for(int i=0;i<3;i++){
             for(int j=0;j<3;j++){
                 scanf("%d", &arr[i][j]);
       int odd=0,even=0;
10
         for(int i=0;i<3;i++)
11
            for(int j=0;j<3;j++)
13
15
                 if((i+j)%2!=0)
16
                odd+=arr[i][j];
18
                 even+=arr[i][j];
19
        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	~

Questiontext2

Microsofthascometohireinternsfromyourcollege.Nstudentsgot shortlisted out of which few were males and a few females.Allthestudentshavebeenassignedtalentlevels.Smallerth e 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-

femalecandidatesaresorted in a descending order and then male candidates

aresortedinadescendingorder.

Input Format

The first line contains an integer Ndenoting the number of students.

Next, Nlines contain two space-separated integers, ai and bi.

Thefirstinteger, aiwill be either 1 (for a male candidate) or 0 (for female candidate).



Thesecondinteger, biwill be the candidate 'stalentlevel.

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 order and then the talent levels of male candidates in descending order.

SAMPLEINPUT 5

03

16

02

07

115

SAMPLEOUTPUT 7

32156

	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 0 12 1 12 0 12 1 12 0 12 1 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 12	~

Questiontext3

ShyamLal,awealthylandlordfromthestateofRajasthan,beingan old fellow and tired of doing hard work, decided to sellallhisfarmlandandtoliverestofhislifewiththatmoney.No other farmer is rich enough to buy all his land so he decidedtopartitionthelandintorectangularplotsofdifferentsizes with different cost per unit area. So, he sold these plotstothefarmersbutmadeamistake.Beingilliterate,hemade partitions that could be overlapping. When the farmerscametoknowaboutit,theyrantohimforcompensationof extra money they paid to him. So, he decided to returnallthemoneytothefarmersofthatlandwhichwas overlapping with other farmer's land to settle down the conflict.Alltheportionofconflictedlandwillbetakenbackbythe landlord.

Todecidethetotalcompensation,hehastocalculatethetotalamoun t 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.HelpShyam Lal to accomplish this task.

InputFormat:

Thefirstlineoftheinputcontainsaninteger N, denoting the total number of land pieces he had distributed. Next N linecontains the S 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≤X1≤X2≤1000

1≤Y1≤Y2≤1000

 $1 \le C \le$

1000SAMPLEIN

PUT 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

