# GE23131-Programming Using C-2024

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| **Status** | Finished |
| **Started** | Tuesday, 24 December 2024, 6:06 PM |
| **Completed** | Tuesday, 24 December 2024, 6:30 PM |
| **Duration** | 23 mins 59 secs |

Question **1**

Correct

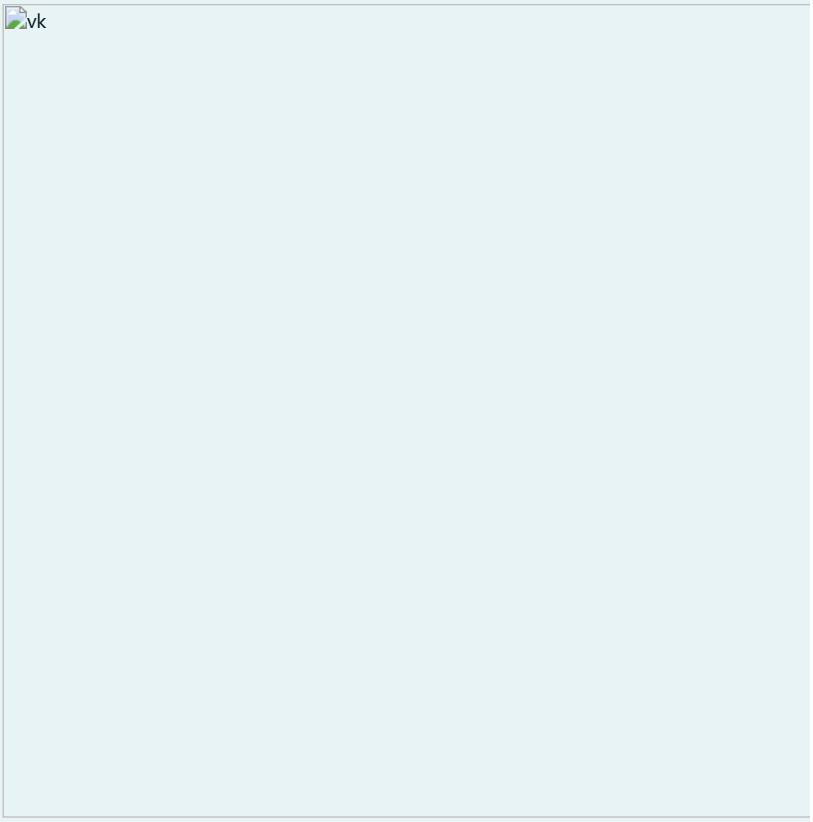
Marked out of 1.00

Flag question

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

**Input Format**

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




**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 %)

| | Input | Expected | Got | |
|---|---|---|---|---|
| | 1 2 3 4 5 6 7 8 9 | 25<br>20 | 25<br>20 | |
| | 21 422 423 443 586 645 657 846 904 | 2591<br>2356 | 2591<br>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 females. All the students have been assigned talent levels. Smaller the talent level, lesser is yo Microsoft wants to create the result list where it wants the candidates sorted according to the 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 a are sorted in a descending order.

Input Format

The first line contains an integer N denoting the number of students. Next, N lines contain tw ai and bi.

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

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

Constraints

$1 <= N <= 10^5$

$0 <= ai <= 1$

$1 <= bi <= 10^9$

Output Format

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

SAMPLE INPUT

5
0 3
1 6
0 2

SAMPLE OUTPUT

7 3 2 15 6

**Answer:** (penalty regime: 0 %)

| | Input | Expected | Got |
|---|---|---|---|
| | 5<br>0 3<br>1 6<br>0 2<br>0 7<br>1 15 | 7 3 2 15 6 | 7 3 2 15 6 |
| | 6<br>0 1<br>0 26<br>0 39<br>0 37<br>0 7<br>0 13 | 39 37 26 13 7 1 | 39 37 26 13 7 1 |
| | 12<br>1 12<br>1 14<br>1 18<br>1 1<br>1 2<br>1 3<br>1 5<br>1 8<br>1 9<br>1 10<br>0 29<br>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<br>0 12<br>1 12<br>0 12<br>1 12<br>0 12<br>0 12<br>1 12<br>0 12<br>1 12<br>1 12<br>0 12<br>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 |

Passed all tests!

Question **3**

Correct

Marked out of 1.00

Flag question

Shyam Lal, a wealthy landlord from the state of Rajasthan, being an old fellow and tired of do
sell all his farmland and to live rest of his life with that money. No other farmer is rich enough
decided to partition the land into rectangular plots of different sizes with different cost per u
plots to the farmers but made a mistake. Being illiterate, he made partitions that could be ov
came to know about it, they ran to him for compensation of extra money they paid to him. So
the money to the farmers of that land which was overlapping with other farmer's land to sett
portion of conflicted land will be taken back by the landlord.

cost they had purchased from him. Suppose, Shyam Lal has a total land area of ***1000 x 1000*** each block is equivalent to a unit square area which can be represented on the co-ordinate a amount of money, he has to return to the farmers. Help Shyam Lal to accomplish this task.

**Input Format:**

The first line of the input contains an integer ***N***, denoting the total number of land pieces he contains the ***5*** space separated integers ***(X1, Y1)***, ***(X2, Y2)*** to represent a rectangular piece o area ***C***.

***(X1, Y1)*** and ***(X2, Y2)*** are the locations of first and last square block on the diagonal of the re

Output Format:

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

Constraints:

***1 ≤ N ≤ 100***
***1 ≤ X1 ≤ X2 ≤ 1000***
***1 ≤ Y1 ≤ Y2 ≤ 1000***
***1 ≤ C ≤ 1000***

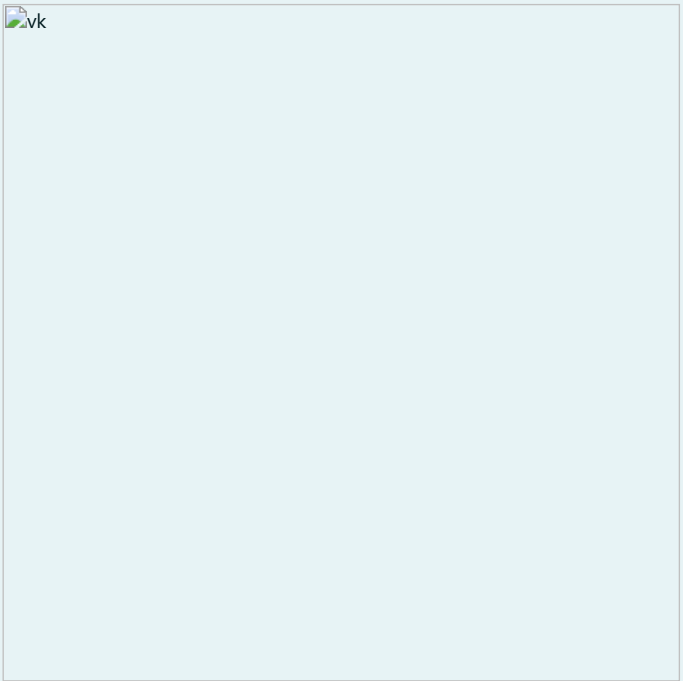
SAMPLE INPUT

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

SAMPLE OUTPUT

35

Explanation



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 %)

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

Passed all tests!

Save the state of the flags