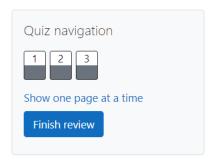
GE23131-Programming Using C-2024



Status Finished

Started Tuesday, 14 January 2025, 8:04 PM

Completed Tuesday, 14 January 2025, 8:47 PM

Duration 42 mins 46 secs

Question **1**Correct
Marked out of

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	A01	A 0 2
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 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

123456789

SAMPLE OUTPUT

25

20

Answer: (penalty regime: 0 %)

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

	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

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

Answer: (penalty regime: 0 %)

```
1 #include <stdio.h>
 2 v struct data{
        int gen;
 3
 4
        int tal;
 5
   };
 6 v int main(){
 7
        int n;
 8
        scanf("%d",&n);
        struct data a[n];
        for(int i=0;i<n;i++)</pre>
10
        scanf("%d %d",&a[i].gen,&a[i].tal);
11
        for(int i=0;i<n-1;i++)
12
13
        for(int j=0;j<n-i-1;++j)</pre>
14 🔻
        if(a[j].tal<a[j+1].tal){</pre>
15
            struct data temp=a[j];
            a[j]=a[j+1];
16
17
            a[j+1]=temp;
18
19
        for(int i=0;i<n;i++)</pre>
20
        if(a[i].gen==0)
        printf("%d ",a[i].tal);
21
        for(int i=0;i<n;++i)</pre>
22
23
        if(a[i].gen==1)
        printf("%d ",a[i].tal);
24
25 }
```

	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	31 29 18 14 12 10 9 8 5 3 2 1	31 29 18 14 12 10 9 8 5 3 2 1	~

~	1 14 1 18 1 1 1 2 1 3 1 5 1 8 1 9 1 10 0 29 0 31 12 0 12 1 12 0 12 1 12	12 12 13	2 12 12	2 12 12	2 12	12 1	12 12	12	12	12 1:	2 12	: 12	12 1	2 12	12 :	12 12	2 12	~	
	0 12 0 12 1 12 0 12 1 12 1 12 0 12 1 12																		

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 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.

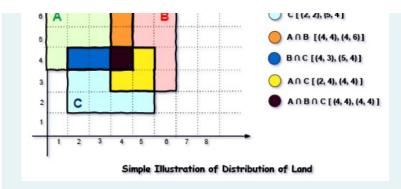
To decide the total compensation, he has to calculate the total amount of money to return back to farmers with the same cost they had purchased from him. Suppose, Shyam Lal has a total land area of **1000 x 1000** equal square blocks where each block is equivalent to a unit square area which can be represented on the co-ordinate axis. Now find the total 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 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. (X1, Y1) and (X2, Y2) are the locations of first and last square block on the diagonal of the rectangular region. Output Format: 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 3 14461 43662 22543 SAMPLE OUTPUT 35 Explanation

A [(1,4), (4, 6)]
B [(4, 3), (6, 6)]



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;
        int arr[1001][1001]={0};
 6
        scanf("%d",&n);
 7
 8
        while(n--){
             scanf("%d %d %d %d %d",&x1,&y1,&x2,&y2,&t);
 9
             for(i=x1;i<=x2;i++){</pre>
10
11 1
                 for(j=y1;j<=y2;j++){</pre>
12
                     if(arr[i][j]==0)
13
                     arr[i][j]+=t;
14
                     else if(arr[i][j]>0)
15
                     arr[i][j]=(-1)*(arr[i][j]+t);
                     else if(arr[i][j]<0)</pre>
16
17
                     arr[i][j]-=t;
18
19
20
        for(i=1;i<1001;i++)
21
22
        for(j=1;j<1001;</pre>
        j++)
23
24
        if(arr[i][j]<0)
25
        total+=arr[i][j];
        nrintf("%]]d\n" (-1)*total).
```

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27	}					
28						

	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! 🗸

Finish review