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AIML C

Question 1

Question text

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

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

Answer: (penalty regime: 0 %)

```
1 #include<stdio.h>
2 int main()
3 {
4     int arr[3][3];
5     for(int i=0;i<3;i++)
6     {
7         for(int j=0;j<3;j++)
8         {
9             scanf("%d",&arr[i][j]);
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++)
16        {
17            if((i+j)%2!=0)
18                odd+=arr[i][j];
19            else
20                even+=arr[i][j];
21        }
22    }
23    printf("%d\n%d",even,odd);
24 }
25 }
```

	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

Question text

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 heDecided to partition the land into rectangular plots of different sizes with different cost per unit area. So, he sold thesePlots 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 theConflict. 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.

```
1 #include<stdio.h>
2
3 int main()
4 {
5     {
6         int i,j,n,x1,x2,y1,y2,t=0;
7         long long total=0;
8         int arr[1001][1001]={0};
9         scanf("%d",&n);
10        while(n-->0)
11        {
12            scanf("%d %d %d %d %d",&x1,&y1,&x2,&y2,&t);
13            for(i=x1;i<=x2;i++)
14            {
15                for(j=y1;j<=y2;j++)
16                {
17                    if(arr[i][j]==0)
18                        arr[i][j]=t;
19                    else if(arr[i][j]>0)
20                        arr[i][j]=(-1)*(arr[i][j]+t);
21                    else if(arr[i][j]<0)
22                        arr[i][j]=-t;
23                }
24            }
25        }
26        for(i=1;i<1001;i++)
27        {
28            for(j=1;j<1001;j++)
29            {
30                if(arr[i][j]<0)
31                    total+=arr[i][j];
32            }
33        }
34        printf("%lld\n",(-1)*total);
35        return 0;
36    }
```

	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! ✓

