

Given a square matrix, calculate the absolute difference between the sums of its diagonals.

```
int main()
{

    int n,d1=0,d2=0,p,q,a[20][20];

    int i=0,j;

    scanf("%d",&n);


    for(p= 0; p< n; p++)
    {
        for(q= 0; q< n; q++)
        {

            scanf("%d",&a[p][q]);

        }
    }

    while(i<n)
    {
        d2+=a[i][i];
        i++;
    }

    j=n-1,i=0;

    while(i<n)
    {
```

```
d1+=a[i][j];
```

```
i++;
```

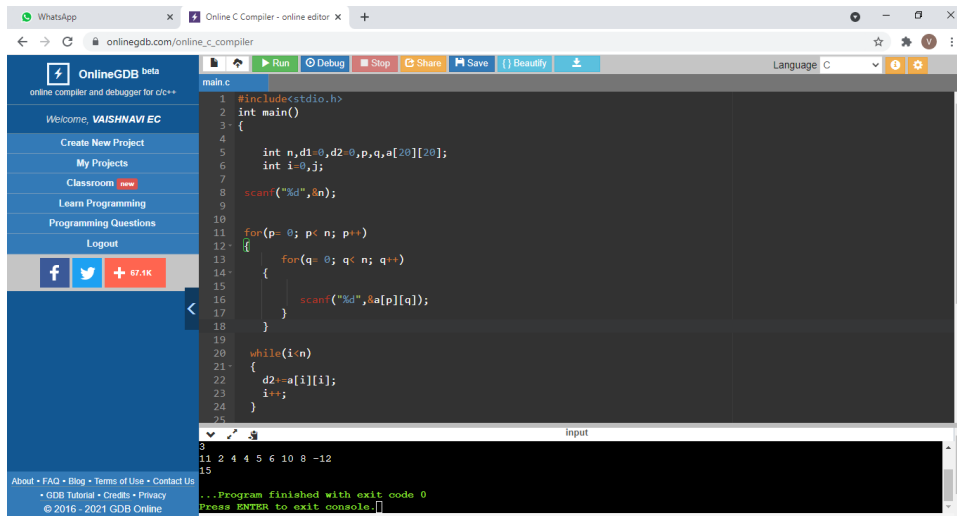
```
j--;
```

```
}
```

```
printf("%d",abs(d2-d1));
```

```
return 0;
```

```
}
```



The screenshot shows the OnlineGDB online compiler interface. The left sidebar contains navigation links: 'OnlineGDB beta', 'Welcome, VAISHNAVI EC', 'Create New Project', 'My Projects', 'Classroom', 'Learn Programming', 'Programming Questions', and 'Logout'. The main editor area displays a C program with the following code:

```
1 #include<stdio.h>
2 int main()
3 {
4
5     int n,d1=0,d2=0,p,q,a[20][20];
6     int i=0,j;
7
8     scanf("%d",&n);
9
10
11     for(p=0; p<n; p++)
12     {
13         for(q=0; q<n; q++)
14         {
15             scanf("%d",&a[p][q]);
16         }
17     }
18
19
20     while(i<n)
21     {
22         d2+=a[i][i];
23         i++;
24     }
25 }
```

The bottom panel shows the input '3' and the output '11 2 4 4 5 6 10 8 -12'. The console output at the bottom indicates the program finished with exit code 0 and prompts the user to press ENTER to exit the console.