

Section: Week-09-Two-Dimensional

puc week 5.pdf

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MADHUJA BA 2024-CSE M2

Week-09-Two-Dimensional and Multi-dimensional Arrays

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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             scanf("%d",&arr[i][j]);
9         }
10    }
11    int odd=0,even=0;
12    for(int i=0;i<3;i++)
13    {
14        for(int j=0;j<3;j++)
15        {
16            if((i+j)%2!=0)
17                odd+=arr[i][j];
18            else
19                even+=arr[i][j];
20        }
21    }
22    printf("%d\n%d",even,odd);
23    return 0;
24 }
25
```

| | Input | Expected | Got | |
|---|------------------------------------|--------------|--------------|---|
| ✓ | 1 2 3 4 5 6 7 8 9 | 25 28 | 25 28 | ✓ |
| ✓ | 21 422 423 443 586 645 657 846 904 | 2591 2356 | 2591 2356 | ✓ |

```
1 #include<stdio.h>
2 struct data
3 {
4     int gen;int tal;
5 };
6 int main()
7 {
8     int n;
9     scanf("%d",&n);
10    struct data a[n];
11    for(int i=0;i<n;i++)
12        scanf("%d %d",&a[i].gen,&a[i].tal);
13    for (int i=0;i<n-1;i++)
14    {
15        for(int j=0;j<n-i-1;j++)
16        {
17            if(a[j].tal<a[j+1].tal)
18            {
19                struct data temp=a[j];
20                a[j]=a[j+1];
21                a[j+1]=temp;
22            }
23        }
24    }
25    for(int i=0;i<n;i++)
26    {
27        if(a[i].gen==0)
28            printf("%d ",a[i].tal);
29    }
30    for (int i=0;i<n;i++)
31    {
32        if(a[i].gen==1)
33            printf("%d ",a[i].tal);
34    }
35    return 0;
36 }
```

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|---------|--|--|--|---|
| | 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 ... | 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 | ✓ |

| | | | | |
|---|------|-------------------------------|----------------------------------|---|
| | 1 10 | | | |
| | 0 29 | | | |
| | 0 31 | | | |
| ✓ | 12 | 12 12 12 12 12 12 12 12 12 12 | 12 12 12 12 12 12 12 12 12 12 12 | ✓ |
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| | 1 12 | | | |
| | 0 12 | | | |
| | 1 12 | | | |

Passed all tests! ✓

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```

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

```

| | 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