

Answer: (penalty: 0 %)

```
1 #include<stdio.h>
2 int main(){
3     int array[3][3];
4     int sum1=0, sum2=0;
5     for(int i=0;i<3;i++){
6         for(int j=0;j<3;j++){
7             scanf("%d",&array[i][j]);
8         }
9     }
10    sum1=array[0][0]+array[0][2]+array[1][1]+array[2][0]+array[2][2];
11    sum2=array[0][1]+array[1][0]+array[1][2]+array[2][1];
12    printf("%d\n",sum1);
13    printf("%d\n",sum2);
14    return 0;
15 }
16
17
```

|   | 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! ✓

Answer (penalty register 0 %)

```
1 #include<stdio.h>
2 #include<stdlib.h>
3 int compare(const void*a,const void*b){
4     return (*(int*)b-*(int*)a);
5 }
6 int main(){
7     int n;
8     scanf("%d",&n);
9     int females[n],males[n];
10    int femalecount=0,malecount=0;
11    for (int i=0;i<n;i++){
12        int gender,talent;
13        scanf("%d %d",&gender,&talent);
14        if(gender==0){
15            females[femalecount++]=talent;
16        }
17        else{
18            males[malecount++]=talent;
19        }
20    }
21    qsort(females,femalecount,sizeof(int),compare);
22    qsort(males,malecount,sizeof(int),compare);
23    for(int i=0;i<femalecount;i++){
24        printf("%d ",females[i]);
25    }
26    for(int i=0;i<malecount;i++){
27        printf("%d ",males[i]);
28    }
29    return 0;
30 }
31
```

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

```

|   | 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! ✓