

✓ Week-07-Searching Algorithms-Linear and Binary

Week-07-01-Practice Session-Coding

✓ Done

✓ Assessment-07-Searching Algorithms-Linear and Binary

✓ Week-08-Sorting Algorithms-Bubble and Selection



✓ Done

Coding

✓ Assessment-08-Sorting Algorithms-Bubble and Selection

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

✓ Done

Coding

**Answer:** (penalty regime: 0 %)

```
1 #include<stdio.h>
2 int main()
3 {
4     int t;
5     scanf("%d", &t);
6     while(t--)
7     {
8         int n, m, d, min, temp;
9         scanf("%d %d", &n, &m);
10        d=n-m;
11        int arr[n];
12        for(int i=0; i<n; i++)
13            scanf("%d", &arr[i]);
14        for(int j=0; j<n; j++)
15        {
16            min=j;
17            for(int k=j; k<n; k++)
18            {
19                if(arr[k]<arr[min])
20                    min=k;
21            }
22            temp=arr[min];
23            arr[min]=arr[j];
24            arr[j]=temp;
25        }
26        int maxsum=0, minsum=0;
27        for(int a=0; a<d; a++)
28            minsum+=arr[a];
29        for(int b=n-1; b>m-1; b--)
30            maxsum+=arr[b];
31        printf("%d\n", maxsum-minsum);
32    }
33 }
```

```
4 int n,min1,min2,temp,flag=1;
5 scanf("%d",&n);
6 int vac[n],pat[n];
7 for(int i=0;i<n;i++)
8     scanf("%d",&vac[i]);
9     for(int i=0;i<n;i++)
10        scanf("%d",&pat[i]);
11    for(int j=0;j<n-1;j++)
12    {
13        min1=j,min2=j;
14        for(int k=j;k<n;k++)
15        {
16            if(vac[k]<vac[min1])
17                min1=k;
18            if(pat[k]<pat[min2])
19                min2=k;
20        }
21        temp=vac[min1];
22        vac[min1]=vac[j];
23        vac[j]=temp;
24        temp=pat[min2];
25        pat[min2]=pat[j];
26        pat[j]=temp;
27    }
28    for(int i=0;i<n;i++)
29    {
30        if(vac[i]<=pat[i])
31        {
32            flag=0;
33            break;
34        }
35    }
36    if(flag==1)
37        printf("Yes");
38    else
39        printf("No");
40 }
```

**Answer:** (penalty regime: 0 %)

```
1 #include<stdio.h>
2 int main()
3 {
4     int n, count=0;
5     scanf("%d", &n);
6     int arr[n];
7     for(int i=0; i<n; i++)
8         scanf("%d", &arr[i]);
9     for(int i=0; i<n-1; i++)
10    {
11        for(int j=i+1; j<n; j++)
12        {
13            if((arr[i]^arr[j])==0)
14                count++;
15        }
16    }
17    printf("%d", count);
18 }
```

Input	Expected	Got
5 1 3 1 4 3	2	2 ✓

Passed all tests! ✓

```

1 #include<stdio.h>
2 int main()
3 {
4     int n;
5     scanf("%d",&n);
6     int arr[n];
7     for(int i=0;i<n;i++)
8         scanf("%d",&arr[i]);
9     int max=arr[0];
10    for(int i=1;i<n;i++)
11    {
12        if(arr[i]>max)
13            max=arr[i];
14    }
15    max++;
16    int min=0;
17    for(int a=0;a<n;a++)
18    {
19        for(int b=0;b<n;b++)
20        {
21            if(arr[b]<arr[min])
22                min=b;
23        }
24        printf("%d ",min);
25        arr[min]=max;
26    }
27 }

```

**Input      Expected      Got**

Input	Expected	Got
✓	5      4 2 0 1 3      4 2 0 1 3	✓
	4 5 3 7 1	