

Section: Week 08: Sorting Algorithms-Bubble and Selection

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MADHUJA BA 2024-CSE M2

Week-08-Sorting Algorithms-Bubble and Selection

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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    return 0;
34 }
```

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

Passed all tests! ✓

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```

2  int main()
3  {
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
12     for(int j=0;j<n-1;j++)
13     {
14         min1=j,min2=j;
15         for(int k=j;k<n;k++)
16         {
17             if(vac[k]<vac[min1])
18                 min1=k;
19             if(pat[k]<pat[min2])
20                 min2=k;
21         }
22         temp=vac[min1];
23         vac[min1]=vac[j];
24         vac[j]=temp;
25
26         temp=pat[min2];
27         pat[min2]=pat[j];
28         pat[j]=temp;
29     }
30     for(int i=0;i<n;i++)
31     {
32         if(vac[i]<=pat[i])
33         {
34             flag=0;
35             break;
36         }
37     }
38     if(flag==1)
39         printf("Yes");

```

```

33 {
34     flag=0;
35     break;
36 }
37 }
38 if(flag==1)
39     printf("Yes");
40 else
41     printf("No");
42     return 0;
43 }

```

	Input	Expected	Got	
✓	5 123 146 454 542 456 100 328 248 689 200	No	No	✓

Passed all tests! ✓

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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     return 0;
19 }

```

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

Passed all tests! ✓

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```
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    return 0;
28 }
29 }
```

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

```
28     return 0;
29 }
```

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

Passed all tests! ✓

Finish review

