

## **Sorting Algorithms – Bubble and Selection**

```

Program: Easy Cusing
#include <stdio.h>
int main()
{
    int t;
    scanf("%d", &t);
    while (t--)
    {
        int n, m, d, min, temp;
        scanf("%d %d %d", &n, &m, &d);
        d = n - m;
        int arr[n];
        for (int i = 0; i < n; i++)
            scanf("%d", &arr[i]);
        for (int j = 0; j < n; j++)
        {
            min = j;
            for (int k = j; k < n; k++)
            {
                if (arr[k] < arr[min])
                    min = k;
            }
            temp = arr[min];
            arr[min] = arr[j];
            arr[j] = temp;
        }
        int maxsum = 0, minsum = 0;
        for (int a = 0; a < d; a++)
            minsum += arr[a];
        for (int b = n - 1; b > m - 1; b--)
            maxsum += arr[b];
        printf("%d\n", maxsum - minsum);
    }
}

```

3

3

Sample Input

1

12 3 4 5

Sample Output

4

Date: 01/05

```

Program: sort it out
#include <stdio.h>
int main()
{
    int n;
    scanf ("%d", &n);
    int arr[n];
    for (int i=0; i<n; i++)
        scanf ("%d", &arr[i]);
    int max = arr[0];
    for (int i=1; i<n; i++)
    {
        if (arr[i] > max)
            max = arr[i];
    }
    max++;
    int min = 0;
    for (int a=0; a<n; a++)
    {
        for (int b=0; b<n; b++)
        {
            if (arr[b] < arr[min])
                min = b;
        }
        printf ("%d\n", min);
        arr[min] = max;
    }
}

```

Net Date 09/12/25

Sample Input

5

4 5 3 7 1

Sample Output

4 20 13

**Program:** Save Patients

```
# include <stdio.h>
```

```
int main()
```

```
{
```

```
    int n, min1, min2, temp, flag = 1;
```

```
    scanf("%d", &n);
```

```
    int vac[n], pat[n];
```

```
    for (int i = 0; i < n; i++)
```

```
        scanf("%d", &vac[i]);
```

```
    for (int i = 0; i < n; i++)
```

```
        scanf("%d", &pat[i]);
```

```
    for (int j = 0; j < n - 1; j++)
```

```
{
```

```
        min1 = j, min2 = j;
```

```
        for (int k = j; k < n; k++)
```

```
{
```

```
            if (vac[k] < vac[min1])
```

```
                min1 = k;
```

```
            if (pat[k] < pat[min2])
```

```
                min2 = k;
```

```
}
```

```
        temp = vac[min1];
```

```
        vac[min1] = vac[j];
```

```
        vac[j] = temp;
```

```
        temp = pat[min2];
```

```
        pat[min2] = pat[j];
```

```
        pat[j] = temp;
```

```
}
```

```
for (int i = 0; i < n;
```

```
i++)
```

```
{ if (vac[i] ==
```

```
    pat[i])
```

```
{
```

```
    flag = 0;
```

```
    break;
```

```
}
```

```
if (flag == 1)
```

```
printf("Yes");
```

```
else
```

```
printf("No");
```

```
}
```

Sample Input

5

123 146 454 542

~~20/01/25~~

**Program:** Shubham and XOR

```
#include <stdio.h>
int main()
{
    int n, count = 0;
    scanf("%d", &n);
    int arr[n];
    for (int i=0; i<n; i++)
        scanf("%d", &arr[i]);
    for (int i=0; i<n-1; i++)
    {
        for (int j=i+1; j<n; j++)
        {
            if ((arr[i] ^ arr[j]) == 0)
                count++;
        }
    }
    printf("%d", count);
}
```

Sample Input

S

13 1 4 3

Sample Output

2

Non Solves