DISK SCHEDULING ALGORITHMS

1. First Come First Serve

```
// Disk Scheduling - FCFS
#include<stdio.h>
#include<stdlib.h>
#include<math.h>
int main()
{
        int start,n,i,dist=0;
        int *arr;
        printf("Enter the Head Start Address: \n");
        scanf("%d",&start);
        printf("Enter the number of Elements in Disk Queue : \n");
        scanf("%d",&n);
        arr = (int *)malloc(n*sizeof(n));
        printf("\n Enter all the Disk Queue : \n\n");
        for(i=0;i<n;i++)
        {
                printf("\n String [%d] : ",i+1);
                scanf("%d",&arr[i]);
        }
        dist = abs(arr[0]-start);
        for(i=1;i<n;i++)
        {
                dist += abs(arr[i]-arr[i-1]);
        }
        printf("\n Total Head Movement : %d",dist);

}
```

OUTPUT DISK-FCFS :

Enter the Head Start Address:
53
Enter the number of Elements in Disk Queue :
8

Enter all the Disk Queue :

String [1] : 98
String [2] : 183
String [3] : 37
String [4] : 122
String [5] : 14
String [6] : 124
String [7] : 65
String [8] : 67

Total Head Movement : **640**