```
#include<stdio.h>
int n[25];
void qs(int n[25],int f,int l){
    int i,j,p,t;
    if(f<l){
      p=f;
      i=f;
      j=l;
      while(i<j){
        while(n[i]<=n[p]&&i<l)
          i++;
        while(n[j]>n[p])
          j--;
        if(i<j){
        t=n[i];
        n[i]=n[j];
        n[j]=t;}
      }
      t=n[p];
      n[p]=n[j];
      n[j]=t;
      qs(n,f,j-1);
      qs(n,j+1,l);
}}

void fcfs(int a,int s,int w){
  int req[20],i;
  req[0]=abs(a[0]-0);
  for(i=1;i<n;i++)
  req[i]=abs(arr[i]-arr[i-1]);
  int sum=0;
  for(i=0;i<n;i++)
      sum+=req[i];
```

```
printf("\n FCFS\n Total number sequence\n Seek sequence");
for(i=0;i<n;i++)
    printf("%d",req[i]);
    printf("\n");
}
void accan(int a[],int s, int n){
int i,sum=0,j, sseq[20];
  qs(a,0,n-1);
  int index;
 for(index=0; index<n; index++){
    if(a[index]==s){
      break
    }
  i = index+1;
  j=0;
 while(i<=n){
   sseq[j] = abs(arr[i]-a[i-1]);
       i++;
       j++;
    }
  sseq[i++] = abs(dis-arr[i-1]);
       i=0;
  sseq[j++] = abs(dis-hs);
  while(i<index){
    sseq[j++] = abs(arr[i] -arr[i-1]);
      i++;
  }
 for(i=0;i<(n+2);i++)
    sum+= sseq[i];

}
void scan(int a[], int s, int n){
   int i,s=0,j, sseq[20];
  qs(a,0,n-1);
  int index;
 for(index=0; index<n; index++){
    if(arr[index] ==s){
      break;
} }
```

```
p = pos - 1;
s = 0;
while (p >= 0){
  seq[p] = abs(arr[p] - arr[p+1]);
      p--;
      s++;
}
p = pos+1
seq[s++] = abs(arr[i++] - arr[0]);
while (i < n){
seq[i++] = abs(a[i] - a[i-1]);
}  i++
for(i=0; i<n; i++)
   s += seq[i];
}
```

Output

Enter no of disks : 5
Enter seek points : 19
Enter curr disk : 50

FCFS
Total seek requ : 77
seek requ : 9 15 5 15 33

C-SCAN
Total seek requ : 118
seek requ 31 50 22 13 5 15

SCAN
Total seek requ : 61
seek requ : 26 15 5 13 2

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5 6 3 1 5 4
0 1 2 3 4 6

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