```
Code
                                                     <u>Output</u>
                                                    Enter the total no. of request :8
#include <stdio.h>
                                                    Enter requests:98
#define max 20
void main()
                                                     183
                                                     37
       int s[max],i,h,n,t=0,f[max],j=0;
                                                     122
       printf("Enter the total no. of request :");
                                                     14
       scanf("%d",&n);
                                                     124
       printf("Enter requests :");
                                                    65
       for(i=0;i<n;i++)
                                                    67
                                                    Enter head request :53
               scanf("%d",&s[i]);
                                                     FCFS disk scheduling>>53 98 183 37
                                                     122 14 124 65 67
       printf("Enter head request :");
                                                    Total seek time: 640
       scanf("%d",&h);
       printf("FCFS disk scheduling>>");
       for(i=0;i<n;i++)
               f[0]=h;
               f[i+1]=s[i];
       for(i=0;i<=n;i++)
               printf("%d ",f[i]);
       for(i=0;i< n;i++)
                      if(f[i+1] < f[i])
                             j=f[i]-f[i+1];
                      else
                             j=f[i+1]-f[i];
                      t=t+j;
       printf("\nTotal seek time : %d",t);
```

## **FCFS**

```
Code
                                                          Output
#include <stdio.h>
                                                          Enter the total no. of request :8
#define max 20
                                                          Enter requests:98
void main()
                                                          183
{
                                                          37
       int n,hp,p[max],seekt=0,i,j,rq[max],t=0,temp,d,a;
                                                          122
       printf("Enter the total no. of request :");
                                                           14
       scanf("%d",&n);
                                                           124
       printf("Enter requests :");
                                                          65
       for(i=0;i< n;i++)
                                                          67
                                                          Enter head position:53
               scanf("%d",&p[i]);
                                                          Enter the no of disks:200
       printf("Enter head position :");
                                                          The SCAN scheduling >>
       scanf("%d",&hp);
                                                          53
                                                                  65
                                                                          67
                                                                                  98
                                                                                          122
                                                                                                  124
       p[n]=hp;
                                                          183
                                                                  37
                                                                           14
       printf("Enter the no of disks :");
                                                          Total seek time: 331
       scanf("%d",&d);
       p[n+1]=d-1;
       for(i=0;i<=n;i++)
               for(j=i+1;j <= n+1;j++)
                       if(p[i]>p[j])
                               temp=p[i];
                               p[i]=p[j];
                               p[j]=temp;
                        }
       for(i=0;i<=n;i++)
               if(p[i]==hp)
                       t=i;
       printf("The SCAN scheduling >>\n");
       for(i=t;i \le n;i++)
               printf("%d\t",p[i]);
        for(i=t-1;i>=0;i--)
               printf("%d\t",p[i]);
        seekt=(p[n+1] - p[t])+(p[n+1] - p[0]);
        printf("\nTotal seek time : %d\n",seekt);
}
```

## **SCAN**

```
Code
                                                                Output
#include <stdio.h>
                                                                Enter the total no. of request :8
#define max 20
                                                                Enter requests:98
void main()
                                                                183
{
                                                                37
       int n,hp,p[max],seekt=0,i,j,rq[max],t=0,temp,d,a;
                                                                122
       printf("Enter the total no. of request :");
                                                                14
       scanf("%d",&n);
                                                                124
       printf("Enter requests :");
                                                                65
       for(i=0;i< n;i++)
                                                                67
                                                                Enter head position:53
               scanf("%d",&p[i]);
                                                                Enter the no of disks :200
       printf("Enter head position :");
                                                                The SCAN scheduling >>
       scanf("%d",&hp);
                                                                                       98
                                                                53
                                                                        65
                                                                                67
                                                                                                122
       p[n]=hp;
                                                                124
                                                                        183
                                                                                0 - > 14
                                                                                           37
       printf("Enter the no of disks :");
                                                                Total seek time: 382
       scanf("%d",&d);
       p[n+1]=d-1;
       for(i=0;i<=n;i++)
               for(j=i+1;j <= n+1;j++)
                       if(p[i]>p[j])
                               temp=p[i];
                               p[i]=p[j];
                               p[j]=temp;
                        }
       for(i=0;i<=n;i++)
               if(p[i]==hp)
                       t=i;
       printf("The SCAN scheduling >>\n");
       for(i=t;i \le n;i++)
               printf("%d\t",p[i]);
        printf("0-->");
       for(i=0;i<=t-1;i++)
               printf("%d\t",p[i]);
               a=i;
       seekt=(p[n+1] - p[t])+p[n+1]+p[t-1];
       printf("\nTotal seek time : %d\n",seekt);
}
```

## C-SCAN