```
#include<stdio.h>

#include<conio.h>

int main()

{       int i,j,temp,Sum1=0,Sum2=0,CPOS,ID,TD=0,ID1;
int array[15]={143,86,1470,913,1774,948,1509,1022,1750,130,4999,0};

        printf("Number of Disc in the cylinder:(0-4999)= 5000 \n");

        printf("Current request being processed in cylinder : 143 \n");

        printf("Previous request that has been processed : 125 \n");

        //it is just showing that is is moving toward positive direction

        printf("Elements in FIFO list : \n");

        printf("143,86 1470 913 1774 948 1509 1022 1750 130");
  //also store boundary value

        int min=array[0];

        for(i=0;i<12;++i)
```

```
{
        for(j=i+1;j<12;++j)
        {
                if(array[i]>array[j])
                {
                        temp=array[i];
                        array[i]=array[j];
                        array[j]=temp;
                }
        }
}
printf("\nElements in Sorted form: ");
```

```
        for(i=0;i<12;++i)

        {

                printf("%d \t",array[i]);

        }

        printf("\nCurrent position of the pointer in sorted array : ");

        for(i=0;i<12;++i)

        {

                if(array[i]==143)

           {

                printf("%d \n",i+1);

        CPOS=i;

        }

}
```

```
printf("Individual distance from moving current position to disc Size(4999) \n");

for(i=CPOS;i<12-1;++i)

{       ID=array[i+1]-array[i];

        printf("%d \n",ID);

        Sum1=Sum1+ID;

}

printf(" Distance from current position to 4999 : %d \n",Sum1);

printf("Individual distance from moving 0 to Current size\n");

for(i=0;i<CPOS-1;i++)

{

        ID1=array[i+1]-array[i];

        printf("%d \n",ID1);
```

```
        Sum2=Sum2+ID1;


        }
printf(" Distance from 0 to current position : %d \n",Sum2);
TD=Sum1+Sum2;


printf("Distance when we don't include the distance from 4999 to 0");


printf("%d \n",TD);


printf("Distance when we include the distance from 4999 to 0");
}
```