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```
Ans 2 # include <stdio.h>
# include <stdlib.h>
int main()
{
    int
    RQ[100], i, j, n, TotalHeadMovement = 0, initial, size, move;
    printf("Enter the number of Requests\n");
    scanf("%d", &n);
    printf("Enter the Requests sequence\n");
    for (i=0; i<n; i++)
        scanf("%d", &RQ[i]);
    printf("Enter initial head position\n");
    scanf("%d", &initial);
    printf("Enter total disk size\n");
    scanf("%d", &size);
    for (i=0; i<n; i++)
    {
        for (j=0; j<n-i-1; j++)
        {
```

Akanksha

if (RQ[j] > RQ[j+1])

{

if int temp;

temp = RQ[j];

RQ[j] = RQ[j+1];

RQ[j+1] = temp;

}

}

}

int index;

for (i = 0, i < n; i++)

{

if (initial < RQ[i])

{

index = i;

break;

}

}

for (i = index; i < n; i++)

{

TotalHeadMoment = TotalHeadMoment + abs(RQ[i] - initial);

initial = RQ[i];

}

TotalHeadMoment = TotalHeadMoment + abs(Size - RQ[i-1] - 1);

initial = Size - 1

for (i = index - 1; i >= 0; i--)

Answer

{

TotalHeadMoment = TotalHeadMoment + abs(RQ[i] - Initial);

Initial = RQ[i];

{

print("Total head movement is %.d", TotalHeadMoment);

return 0;

{

Abdulga

× Output ↗

```
+ gcc -w -Wall -std=gnu99 -O2 -o main.out main.  
+ ./main.out  
Enter the number of Requests  
7  
Enter the Requests sequence  
12  
26  
24  
4  
42  
8  
50  
Enter initial head position  
24  
Enter total disk size  
100  
Total head movement is 170
```