**CLOOK**

#include <stdlib.h>

int main(){

int RQ[100], i, j, n, TotalHeadMoment = 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);

printf("Enter the head movement direction for high 1 and for low 0\n");

scanf("%d", &move);

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

for (j = 0; j < n - i - 1; j++){

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

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;

}

}

if (move == 1){

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

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

initial = RQ[i];

}

for (i = 0; i < index; i++){

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

initial = RQ[i];

}

}

else{

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

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

initial = RQ[i];

}

for (i = n - 1; i >= index; i--){

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

initial = RQ[i];

}

}

printf("Total head movement is %d\n", TotalHeadMoment);

return 0;

}  
  
  
  
output  
  
  
comp68@comp68:~/Documents$ gcc clook.c  
comp68@comp68:~/Documents$ ./a.out  
Enter the number of Requests  
3  
Enter the Requests sequence  
3  
2  
1  
Enter initial head position  
1  
Enter total disk size  
3  
Enter the head movement direction for high 1 and for low 0  
1  
Total head movement is 4