FCFS ALGORITHM:

#include<math.h>

#include<stdio.h>

#include<stdlib.h>

int main()

{

int i,n,req[50],mov=0,cp;

printf("enter the current position\n");

scanf("%d",&cp);

printf("enter the number of requests\n");

scanf("%d",&n);

printf("enter the request order\n");

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

{

scanf("%d",&req[i]);

}

mov=mov+abs(cp-req[0]); // abs is used to calculate the absolute value

printf("%d -> %d",cp,req[0]);

for(i=1;i<n;i++)

{

mov=mov+abs(req[i]-req[i-1]);

printf(" -> %d",req[i]);

}

printf("\n");

printf("total head movement = %d\n",mov);

}

OUTPUT:

enter the current position

4

enter the number of requests

5

enter the request order

1

2

3

4

5

4 -> 1 -> 2 -> 3 -> 4 -> 5

total head movement = 7

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Process exited after 9.917 seconds with return value 24

Press any key to continue . . .