**SSTF Code:**

#include <bits/stdc++.h>

using namespace std;

void calculatedifference(int request[], int head,int diff[][2], int n)

{

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

{

diff[i][0] = abs(head - request[i]);

}

}

int findMIN(int diff[][2], int n)

{

int index = -1;

int minimum = 1e9;

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

{

if (!diff[i][1] && minimum > diff[i][0])

{

minimum = diff[i][0];

index = i;

}

}

return index;

}

void shortestSeekTimeFirst(int request[],int head, int n)

{

if (n == 0)

{

return;

}

int diff[n][2] = { { 0, 0 } };

int seeksequence[n + 1] = {0};

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

{

seeksequence[i] = head;

calculatedifference(request, head, diff, n);

int index = findMIN(diff, n);

diff[index][1] = 1;

seekcount += diff[index][0];

head = request[index];

}

seeksequence[n] = head;

cout << "Total number of seek operations = "

<< seekcount << endl;

cout << "Seek sequence is : " << "\n";

// Print the sequence

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

{

cout << seeksequence[i] << "\n";

}

}

int main()

{

int n;

cout<<”enter no of indexes”;

cin>>n>>”\n”;

int proc[n];

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

{

cout<<"enter the index”;

cin>>proc[i];

}

int k;

cout<<"enter the head element: ";

cin>>k;

shortestSeekTimeFirst(proc, k, n);

return 0;

}

**Output:**

enter no of indexes: 6

enter the index12

enter the index50

enter the index18

enter the index108

enter the index98

enter the index40

enter the head element: 50

Total number of seek operations = 134

Seek sequence is :

50

40

18

12

98

108