#include<conio.h>

#include<math.h>

int main()

{

int i,n, head, sum=0, diff;

float avg;

printf("Enter the number of tracks: ");

scanf("%d", &n);

int track[n];

printf("Enter the track positions: ");

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

{

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

}

printf("Enter the initial head position: ");

scanf("%d", &head);

printf("Track sequence is: %d -> ", head);

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

{

diff = abs(track[i]-head);

sum += diff;

head = track[i];

printf("%d -> ", head);

}

avg = (float)sum/n;

printf("\n\nTotal head movement: %d\n", sum);

printf("Average head movement: %f\n", avg);

return 0;

}

OUTPUT

Enter the number of tracks: 6

Enter the track positions: 7

34

90

67

78

57

Enter the initial head position: 12

Track sequence is: 12 -> 7 -> 34 -> 90 -> 67 -> 78 -> 57 ->

Total head movement: 143

Average head movement: 23.833334

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Process exited after 37.24 seconds with return value 0

Press any key to continue . . .