```c
// Name : Girase Vipul Suratsing
// Batch : A3
// Roll No. : 65
// Class(Sec.) : TE(A)

#include<stdio.h>
int main() {
    int t[20], n, tohm[20], tot = 0, i;
    float avhm;

    printf("Enter the no.of tracks: ");
    scanf("%d", &n);

    printf("Enter the tracks to be traversed: ");
    for (i = 0; i < n; i++)
        scanf("%d", &t[i]);

    for (i = 0; i < n - 1; i++) {
        tohm[i] = t[i + 1] - t[i];
        if (tohm[i] < 0)
            tohm[i] = tohm[i] * (-1);
    }

    for (i = 0; i < n - 1; i++)
        tot += tohm[i];

    avhm = (float)tot / n;

    printf("Tracks traversed\tDifference between tracks\n");
    for (i = 0; i < n - 1; i++)
        printf("%d\t\t\t%d\n", t[i], tohm[i]);

    printf("\nAverage header movements: %f\n", avhm);

    return 0;
}
//Output :-
//Enter the no.of tracks: 9
//Enter the tracks to be traversed: 55 58 60 70 18 90 150 160 184
//Tracks traversed        Difference between tracks
//55                      3
//58                      2
//60                      10
//70                      52
//18                      72
//90                      60
//150                     10
//160                     24
//
//Average header movements: 25.888889
//
//.................................................
//Process exited after 101.9 seconds with return value 0
//Press any key to continue . . .
```