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1  /// Quiz 4 2557-1: Count Closest Numbers
2  /// Author: Pinyo Taeprasartsit
3
4  #include <stdio.h>
5  #include <limits.h>
6
7  int A[100000];
8
9  int main() {
10     int K, N, diff;
11     scanf("%d", &N);
12     for(int i = 0; i < N; ++i) {
13         scanf("%d", &A[i]);
14     }
15     scanf("%d", &K);
16
17     // Find minimum difference and count the occurrence.
18     int minDiff = INT_MAX;
19     int count = 0;
20     for(int i = 0; i < N; ++i) {
21         if(A[i] >= K) {
22             diff = A[i] - K;
23         } else {
24             diff = K - A[i];
25         }
26         if(diff < minDiff) {
27             minDiff = diff;
28             count = 1;
29         } else if(diff == minDiff) {
30             ++count;
31         }
32     }
33     printf("%d\n%d", minDiff, count);
34
35     return 0;
36 }

```