

```

1  #include <iostream>
2  #include <iomanip>
3  #include <algorithm>
4  #include <math.h>
5
6  using namespace std;
7
8
9  int main()
10 {
11     int N;
12     cin >> N;
13     int villages[N];
14     int stub;
15     for (int i = 0; i < N; i++)
16     {
17         cin >> villages[i];
18     }
19     sort(villages,villages+N-1);
20     double area[N];
21     area[0] = -1;
22     area[N-1] = -1;
23     double maxArea;
24     for(int i = 1; i < N-1 ; i++)
25     {
26         area[i] = (double)((double)abs(abs(villages[i])-abs(villages[i-1]))/2) + (double)((double)abs(abs(
villages[i+1])-abs(villages[i]))/2);
27         if(area[i] < maxArea || i == 1)
28         {
29             maxArea = area[i];
30         }
31     }
32
33     cout << fixed << setprecision(1) << maxArea;
34     return 0;
35 }

```