```java
 1: import java.util.HashSet;
 2: import java.util.Scanner;
 3: import java.util.Set;
 4: import java.util.SortedSet;
 5: import java.util.TreeSet;
 6:
 7: public class Jump {
 8:         public static SortedSet<Integer> pos = new TreeSet<Integer>();
 9:         public static Set<Integer> visitied = new HashSet<Integer>();
10:
11:         public static void main(String[] args) {
12:                 Scanner sc = new Scanner(System.in);
13:                 int n;
14:                 while((n = sc.nextInt()) != 0) {
15:                         int[] line = new int[n];
16:                         for(int i = 0; i < n; i++) {
17:                                 line[i] = sc.nextInt();
18:                         }
19:                         visitied.clear();
20:                         pos.add(0);
21:                         int max = 0;
22:                         while(!pos.isEmpty()) {
23:                                 int from = pos.first();
24:                                 pos.remove(from);
25:                                 visitied.add(from);
26:                                 if(from > max) max = from;
27:                                 for(int i = 0; i < n;i++) {
28:                                         if(visitied.contains(i)) continue;
29:                                         if (canJump(from, i, line)) {
30:                                                 pos.add(i);
31:                                         }
32:                                 }
33:                         }
34:                         System.out.println(max);
35:                 }
36:                 sc.close();
37:         }
38:
39:         public static boolean canJump(int from, int to, int[] line) {
40:                 int diff = 0;
41:                 if(from < to) diff = to - from;
42:                 else diff = from - to;
43:                 return (line[from] + line[to]) == diff;
44:         }
45: }
```