```
1 import "dart:core";
 2
 3 main() {
 4
    const int
 5
      size1 = 128,
       size2 = 512,
 6
       size3 = 2048,
 7
 8
      size4 = 8192,
 9
       size5 = 32768,
10
      size6 = 131072,
11
       size7 = 524288,
       size8 = 2097152;
12
13
14
     arrTest(size1);
15
    arrTest(size2);
16
     arrTest(size3);
17
     arrTest(size4);
18
     arrTest(size5);
19
     arrTest(size6);
20
     arrTest(size7);
21
     arrTest(size8);
22 }
23
24 void arrTest(int size) {
25
     var array = new List<int>.generate(size, (i) => i + 1);
26
     var clock = new Stopwatch();
27
    clock.start();
28
     for (var i = 0; i < 10000000; i++)
29
       binarySearch(array, size+1);
30
     clock.stop();
     print("Time elapsed: " + clock.elapsed.toString());
31
32 }
33
34 int binarySearch(List array, int target) {
35
     var first, mid, last;
36
     first = 0;
37
     last = array.length-1;
38
39
     while(first <= last) {</pre>
40
       mid = ((first + last) / 2).ceil();
41
       if(array[mid] > target)
42
         last = mid - 1;
43
       else if(array[mid] < target)</pre>
44
         first= mid + 1;
45
       else
46
         return mid;
47
     }
48
       return -1;
49 }
50
```