Java – Mountain Summit

Purpose

This lab was designed to teach you how to use an algorithm called bisection search.

Description

Given an array of integers that represents elevations, return the index of the summit (the highest value). Assuming i is the summit index, then the array will be ordered such that:

ary[0] < ary[1] < ... < ary[i] and ary[i] > ary[i+1] > … > arr[arr.length - 1].

You may assume that a summit exists, and you are required to solve this problem in logarithmic time.

Program Shell

Summit.java has been provided for you.

Sample Execution

```
1
2
1
5
11
11
687500000
799999998
```