Solution 1   Solution 2   Solution 3

```java
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import java.util.*;
import java.util.stream.*;

// O(n^2) time | O(n) space - where in is the length of the input array
class Program {
  public static int minRewards(int[] scores) {
    int[] rewards = new int[scores.length];
    Arrays.fill(rewards, 1);
    for (int i = 1; i < scores.length; i++) {
      int j = i - 1;
      if (scores[i] > scores[j]) {
        rewards[i] = rewards[j] + 1;
      } else {
        while (j >= 0 && scores[j] > scores[j + 1]) {
          rewards[j] = Math.max(rewards[j], rewards[j + 1] + 1);
          j--;
        }
      }
    }
    return IntStream.of(rewards).sum();
  }
}
```