Problem 506: Relative Ranks

Problem Information

Difficulty: Easy
Acceptance Rate: 74.01%
Paid Only: No
Tags: Array, Sorting, Heap (Priority Queue)

Problem Description

You are given an integer array `score` of size `n`, where `score[i]` is the score of the `ith` athlete in a competition. All the scores are guaranteed to be **unique**.

The athletes are **placed** based on their scores, where the `1st` place athlete has the highest score, the `2nd` place athlete has the `2nd` highest score, and so on. The placement of each athlete determines their rank:

* The `1st` place athlete's rank is `"Gold Medal"`. * The `2nd` place athlete's rank is `"Silver Medal"`. * The `3rd` place athlete's rank is `"Bronze Medal"`. * For the `4th` place to the `nth` place athlete, their rank is their placement number (i.e., the `xth` place athlete's rank is `"x"`).

Return an array `answer` of size `n` where `answer[i]` is the **rank** of the `ith` athlete.

Example 1:

Input: score = [5,4,3,2,1] **Output:** ["Gold Medal","Silver Medal","Bronze Medal","4","5"] **Explanation:** The placements are [1st, 2nd, 3rd, 4th, 5th].

Example 2:

Input: score = [10,3,8,9,4] **Output:** ["Gold Medal","5","Bronze Medal","Silver Medal","4"] **Explanation:** The placements are [1st, 5th, 3rd, 2nd, 4th].

Constraints:

* `n == score.length` * `1 <= n <= 104` * `0 <= score[i] <= 106` * All the values in `score` are **unique**.

Code Snippets

C++:

```
class Solution {
public:
vector<string> findRelativeRanks(vector<int>& score) {

}
};
```

Java:

```
class Solution {
public String[] findRelativeRanks(int[] score) {

}
}
```

Python3:

```
class Solution:
def findRelativeRanks(self, score: List[int]) -> List[str]:
```