

5937. Sequentially Ordinal Rank Tracker

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A scenic location is represented by its `name` and attractiveness `score`, where `name` is a **unique** string among all locations and `score` is an integer. Locations can be ranked from the best to the worst. The **higher** the score, the better the location. If the scores of two locations are equal, then the location with the **lexicographically smaller** name is better.

You are building a system that tracks the ranking of locations with the system initially starting with no locations. It supports:

- **Adding** scenic locations, **one at a time**.
- **Querying** the i^{th} **best** location of **all locations already added**, where i is the number of times the system has been queried (including the current query).
 - For example, when the system is queried for the 4^{th} time, it returns the 4^{th} best location of all locations already added.

Note that the test data are generated so that **at any time**, the number of queries **does not exceed** the number of locations added to the system.

Implement the `SORTracker` class:

- `SORTracker()` Initializes the tracker system.
- `void add(string name, int score)` Adds a scenic location with `name` and `score` to the system.
- `string get()` Queries and returns the i^{th} best location, where i is the number of times this method has been invoked (including this invocation).

Example 1:

Input

```
["SORTracker", "add", "add", "get", "add", "get", "add", "get", "add", "get", "add", "get", "get"]
[[], ["bradford", 2], ["branford", 3], [], ["alps", 2], [], ["orland", 2], [], ["orlando", 3], [], ["alpine", 2], [],
```

Output

```
[null, null, null, "branford", null, "alps", null, "bradford", null, "bradford", null, "bradford", "orland"]
```

Explanation

```
SORTracker tracker = new SORTracker(); // Initialize the tracker system.
tracker.add("bradford", 2); // Add location with name="bradford" and score=2 to the system.
tracker.add("branford", 3); // Add location with name="branford" and score=3 to the system.
tracker.get();              // The sorted locations, from best to worst, are: branford, bradford.
                             // Note that branford precedes bradford due to its higher score (3 > 2).
                             // This is the 1st time get() is called, so return the best location: "branford".

tracker.add("alps", 2);     // Add location with name="alps" and score=2 to the system.
tracker.get();              // Sorted locations: branford, alps, bradford.
                             // Note that alps precedes bradford even though they have the same score (2).
                             // This is because "alps" is lexicographically smaller than "bradford".
                             // Return the 2nd best location "alps", as it is the 2nd time get() is called.

tracker.add("orland", 2);   // Add location with name="orland" and score=2 to the system.
tracker.get();              // Sorted locations: branford, alps, bradford, orland.
                             // Return "bradford", as it is the 3rd time get() is called.

tracker.add("orlando", 3);  // Add location with name="orlando" and score=3 to the system.
tracker.get();              // Sorted locations: branford, orlando, alps, bradford, orland.
                             // Return "bradford".

tracker.add("alpine", 2);   // Add location with name="alpine" and score=2 to the system.
tracker.get();              // Sorted locations: branford, orlando, alpine, alps, bradford, orland.
                             // Return "bradford".

tracker.get();              // Sorted locations: branford, orlando, alpine, alps, bradford, orland.
                             // Return "orland".
```

Constraints:

- name consists of lowercase English letters, and is unique among all locations.
- $1 \leq \text{name.length} \leq 10$
- $1 \leq \text{score} \leq 10^5$
- At any time, the number of calls to `get` does not exceed the number of calls to `add`.
- At most $4 * 10^4$ calls **in total** will be made to `add` and `get`.

JavaScript



```
1
2 var SORTracker = function() {
3
4 };
5
6 /**
7  * @param {string} name
8  * @param {number} score
9  * @return {void}
10 */
11 SORTracker.prototype.add = function(name, score) {
12
13 };
14
15 /**
16  * @return {string}
17 */
18 SORTracker.prototype.get = function() {
19
20 };
21
22 /**
23  * Your SORTracker object will be instantiated and called as such:
24  * var obj = new SORTracker()
25  * obj.add(name,score)
26  * var param_2 = obj.get()
27  */
```

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