**895. Maximum Frequency Stack**

Hard

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Implement FreqStack, a class which simulates the operation of a stack-like data structure.

FreqStack has two functions:

* push(int x), which pushes an integer x onto the stack.
* pop(), which **removes** and returns the most frequent element in the stack.
  + If there is a tie for most frequent element, the element closest to the top of the stack is removed and returned.

**Example 1:**

**Input:**

["FreqStack","push","push","push","push","push","push","pop","pop","pop","pop"],

[[],[5],[7],[5],[7],[4],[5],[],[],[],[]]

**Output:** [null,null,null,null,null,null,null,5,7,5,4]

**Explanation**:

After making six .push operations, the stack is [5,7,5,7,4,5] from bottom to top. Then:

pop() -> returns 5, as 5 is the most frequent.

The stack becomes [5,7,5,7,4].

pop() -> returns 7, as 5 and 7 is the most frequent, but 7 is closest to the top.

The stack becomes [5,7,5,4].

pop() -> returns 5.

The stack becomes [5,7,4].

pop() -> returns 4.

The stack becomes [5,7].

**Note:**

* Calls to FreqStack.push(int x) will be such that 0 <= x <= 10^9.
* It is guaranteed that FreqStack.pop() won't be called if the stack has zero elements.
* The total number of FreqStack.push calls will not exceed 10000 in a single test case.
* The total number of FreqStack.pop calls will not exceed 10000 in a single test case.
* The total number of FreqStack.push and FreqStack.pop calls will not exceed 150000 across all test cases.

Accepted

48,399

Submissions

77,707