**Min Stack**

<https://leetcode.com/problems/min-stack/>

Design a stack that supports push, pop, top, and retrieving the minimum element in constant time.

Implement the MinStack class:

* MinStack() initializes the stack object.
* void push(int val) pushes the element val onto the stack.
* void pop() removes the element on the top of the stack.
* int top() gets the top element of the stack.
* int getMin() retrieves the minimum element in the stack.

You must implement a solution with O(1) time complexity for each function.

**Example 1:**

**Input**

["MinStack","push","push","push","getMin","pop","top","getMin"]

[[],[-2],[0],[-3],[],[],[],[]]

**Output**

[null,null,null,null,-3,null,0,-2]

**Explanation**

MinStack minStack = new MinStack();

minStack.push(-2);

minStack.push(0);

minStack.push(-3);

minStack.getMin(); // return -3

minStack.pop();

minStack.top(); // return 0

minStack.getMin(); // return -2

**Constraints:**

* -231 <= val <= 231 - 1
* Methods pop, top and getMin operations will always be called on **non-empty** stacks.
* At most 3 \* 104 calls will be made to push, pop, top, and getMin.