Design a max stack that supports push, pop, top, peekMax and popMax.

1. push(x) -- Push element x onto stack.
2. pop() -- Remove the element on top of the stack and return it.
3. top() -- Get the element on the top.
4. peekMax() -- Retrieve the maximum element in the stack.
5. popMax() -- Retrieve the maximum element in the stack, and remove it. If you find more than one maximum elements, only remove the top-most one.

**Example 1:**

MaxStack stack = new MaxStack();

stack.push(5);

stack.push(1);

stack.push(5);

stack.top(); -> 5

stack.popMax(); -> 5

stack.top(); -> 1

stack.peekMax(); -> 5

stack.pop(); -> 1

stack.top(); -> 5

**Note:**

1. -1e7 <= x <= 1e7
2. Number of operations won't exceed 10000.
3. The last four operations won't be called when stack is empty.