

Implement a first in first out (FIFO) queue using only two stacks. The implemented queue should support all the functions of a normal queue (push, peek, pop, and empty).

Implement the MyQueue class:

- void push(int x) Pushes element x to the back of the queue.
- int pop() Removes the element from the front of the queue and returns it.
- int peek() Returns the element at the front of the queue.
- boolean empty() Returns true if the queue is empty, false otherwise.

## Notes:

- You must use only standard operations of a stack, which means only push to top, peek/pop from top, size, and is empty operations are valid.
- Depending on your language, the stack may not be supported natively. You may simulate a stack using a list or deque (double-ended queue) as long as you use only a stack's standard operations.

```
class MyQueue {
    var stack1:[Int] = []
    var stack2:[Int] = []

    init() {
        stack1 = []
        stack2 = []
    }

    func push(_ x: Int) {
        stack1.append(x)
    }

    func pop() -> Int {
        stack2 = stack1
        let s = stack2.removeFirst()
        stack1 = stack2
```

```
return s
   }
   func peek() -> Int {
      return stack1.first!
   func empty() -> Bool {
      if(stack1.isEmpty) {
          return true
      }
      return false
  }
}
/**
* Your MyQueue object will be instantiated and called as such:
* let obj = MyQueue()
* obj.push(x)
* let ret_2: Int = obj.pop()
* let ret_3: Int = obj.peek()
* let ret 4: Bool = obj.empty()
*/
```