Implement Queue using Stacks

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.

Example 1:

```
Input
["MyQueue", "push", "push", "peek", "pop", "empty"]
[[], [1], [2], [], [], []]
Output
[null, null, null, 1, 1, false]

Explanation
MyQueue myQueue = new MyQueue();
myQueue.push(1); // queue is: [1]
myQueue.push(2); // queue is: [1, 2] (leftmost is front of the queue)
myQueue.peek(); // return 1
myQueue.pop(); // return 1, queue is [2]
myQueue.empty(); // return false
```

Constraints:

- 1 <= x <= 9
- At most 100 calls will be made to push, pop, peek, and empty.
- All the calls to pop and peek are valid.

```
public class MyQueue {
    Stack<int> s1 = new Stack<int>();
    Stack<int> s2 = new Stack<int>();
    public MyQueue() {
        s1.Clear();
        s2.Clear();
    }
    public void Push(int x) {
        while(s2.Count != 0)
            s1.Push(s2.Pop());
        s1.Push(x);
    }
    public int Pop() {
        while(s1.Count != 0)
        {
            s2.Push(s1.Pop());
        }
        return s2.Pop();
    }
    public int Peek() {
        while(s1.Count != 0)
        {
            s2.Push(s1.Pop());
        }
        return s2.Peek();
    }
    public bool Empty() {
        return (s1.Count == 0 && s2.Count == 0);
    }
}
 * Your MyQueue object will be instantiated and called as such:
 * MyQueue obj = new MyQueue();
 * obj.Push(x);
 * int param_2 = obj.Pop();
 * int param_3 = obj.Peek();
 * bool param_4 = obj.Empty();
 */
```