

```
import java.util.Stack;

/*
 * 这是剑指offer上面的题目，用两个栈实现一个队列
 */
public class StackToQueue {

    Stack<Integer> stack1 = new Stack<>();
    Stack<Integer> stack2 = new Stack<>();

    public void push(int node) {
        stack1.push(node);
    }

    public int pop() {
        if(stack2.size() <= 0) {
            while(stack1.size() > 0) {
                stack2.push(stack1.pop());
            }
        }

        if(stack2.isEmpty()) {
            try {
                throw new Exception("queue is empty");
            } catch (Exception e) {
                // TODO: handle exception
            }
        }

        int head = stack2.pop();
        return head;
    }
}
```