402. Remove K Digits

link

remove k个数字找最小的, 0开始不算

提交了4次才通过.

1. 删掉最开始的0, 但是如果是"10" ,1 本身就是0, 结果会是空字符串""
2. "1234" 删掉3, 但是是增序没有删除, 所以最后要substring到len - k
3. 1234567890 9, 显示是1因为应该用while把前面的全删除.

```java
public String removeKdigits(String num, int k) {
    if(k >= num.length()) return "0";
    int i = 1;
    Deque<Character> stack = new ArrayDeque<>();
    stack.push(num.charAt(0));
    while(i < num.length()){
//这里最开始写的if
        while(k > 0 && !stack.isEmpty() && stack.peek() > num.charAt(i)){
            stack.pop();
            k--;
        }
        stack.push(num.charAt(i++));
    }
    StringBuilder sb = new StringBuilder();
    boolean beginWithZero = true;
    while(!stack.isEmpty()){
        char c = stack.poll();
        sb.append(c);
    }
    String s = sb.reverse().toString();
    i = 0;
    while(i < s.length()){
        if(s.charAt(i) != '0') break;
        ++i;
    }
    s = s.substring(i, s.length() - k);
    return s.length() == 0 ? "0" : s;
}
```