

```
package Algorithm;
    import java.util.Stack;
3
     public class L394 {
 6
          * 用栈来解决,每次遇到"["就把"["之前的res塞进stack里,遇到数字就把数字塞进numStack,每次遇到"]"就把stack.pop()
* 和numStack.pop()个res连起来,然后作为新的res,等待下次被,塞进栈里面,或者被和stack里的元素连接起来,最后返回res即可*/
String decodeString(String s) {
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               int len = s.length();
              if(len == 0 || s == null)
return "";
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13
               Stack<Integer> numStack = new Stack<Integer>(); Stack<String> strStack = new Stack<String>();
               StringBuilder res = new StringBuilder();
15
               for(int i = 0; i < len; i ++) {</pre>
                  char c = s.charAt(i);
if(c == '[') {
16
17
18
                        strStack.push(res.toString());
19
                        res = new StringBuilder();
                   }else if (c == ']') {
  int num = numStack.pop();
20
21
                        StringBuilder temp = new StringBuilder(strStack.pop());
22
                        for(int j = 0; j < num; j ++) {
23
24
                            temp.append(res);
25
                        res = temp;
26
                   }else if(Character.isDigit(c)) {
27
28
                       int num = 0;
                        while(i < len && Character.isDigit(s.charAt(i))) {
  num = num * 10 + s.charAt(i) - '0';</pre>
29
30
                             i ++:
31
32
33
                        i --;
                        numStack.push(num);
34
35
                   }else {
                        res.append(c);
36
37
38
39
              return res.toString();
40
         }
    }
```