

Problem: <https://leetcode.com/problems/string-to-integer-atoi/>

## 8. String to Integer (atoi) Code:

```
class Solution {
    public int myAtoi(String str) {
        int index = 0;
        int total = 0;
        int sign = 1;

        if(str.length() == 0)
            return 0;

        while(index < str.length() && str.charAt(index) == ' ')
            index++;

        if (index == str.length()) return 0;

        if(str.charAt(index) == '+' || str.charAt(index) == '-') {
            sign = str.charAt(index) == '+' ? 1 : -1;
            index++;
        }

        while(index < str.length()) {
            int digit = str.charAt(index) - '0';
            if(digit < 0 || digit > 9) break;

            if(Integer.MAX_VALUE / 10 < total || Integer.MAX_VALUE / 10 == total &&
Integer.MAX_VALUE % 10 < digit)
                return sign == 1 ? Integer.MAX_VALUE : Integer.MIN_VALUE;

            total = total*10 + digit;
            index++;
        }
        return total*sign;
    }
}
```