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Implement Atoi

Difficulty: **Medium**Accuracy: **32.58%**Submissions: **246K+**Points: **4**

Given a string *s*, the objective is to convert it into integer format without utilizing any built-in functions. Refer the below steps to know about `atoi()` function.

Cases for `atoi()` conversion:

1. Skip any leading whitespaces.
2. Check for a sign ('+' or '-'), default to positive if no sign is present.
3. Read the integer by ignoring leading zeros until a non-digit character is encountered or end of the string is reached. If no digits are present, return 0.
4. If the integer is greater than $2^{31} - 1$, then return $2^{31} - 1$ and if the integer is smaller than -2^{31} , then return -2^{31} .

Examples:

Input: *s* = "-123"**Output:** -123**Explanation:** It is possible to convert -123 into an integer so we returned in the form of an integer

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Java (1.8)

Average Time: 15m

Start Timer



```
1 // } Driver Code Ends
23
24 class Solution {
25     public int myAtoi(String s) {
26         int i = 0, n = s.length();
27         while (i < n && s.charAt(i) == ' ') {
28             i++;
29         }
30         if (i == n) return 0;
31         int sign = 1;
32         if (s.charAt(i) == '-') {
33             sign = -1;
34             i++;
35         } else if (s.charAt(i) == '+') {
36             i++;
37         }
38         long result = 0;
39         while (i < n && Character.isDigit(s.charAt(i))) {
40             result = result * 10 + (s.charAt(i) - '0');
41             if (result * sign > Integer.MAX_VALUE) return Integer.MAX_VALUE;
42             if (result * sign < Integer.MIN_VALUE) return Integer.MIN_VALUE;
43             i++;
44         }
45         return (int) (result * sign);
46     }
47 }
48
```



Custom Input

Compile & Run

Submit