**Atoi**

**Implement atoi to convert a string to an integer.**

***Code:***

class Solution **{**

public int myAtoi**(**String str**)** **{**

**if(**str**.**equals**(**""**))**

**return** 0**;**

int total **=** 0**;**

int sign **=**1**;**

int i**=**0**;**

**while(**str**.**charAt**(**i**)==**32**){**i**++;}**

**if(**str**.**charAt**(**i**)==**'+' **||** // **Some cases don’t need positive sign;**

str**.**charAt**(**i**)==** '-'**){**

sign **=** str**.**charAt**(**i**)==**'+'**?** 1**:-**1**;**

i**++;**

**}**

**while(**i**<**str**.**length**()** **&&** str**.**charAt**(**i**)** **>=** '0' **&&** str**.**charAt**(**i**)<=**'9'**){**

int digit **=** str**.**charAt**(**i**)-**'0'**;**

**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**;**

i**++;**

**}**

**return** total**\***sign**;**

**}**

**}**

**\*When you are testing if the number is bigger than Integer.MAX\_VALUE you need to put attention on the first condition. Integer.MAX\_VALUE/10 <total is always bigger.**