ATOI CONVERSION

☆ In this problem, we are given a string and are supposed to convert it to a signed integer while abiding by a few rules

All whitespaces are to be ignored
If the string starts with a + or a -, that sign is to be taken into account.
Any non digit character will termin -ate our conversion
Answer must be wrapped to $INT\_MIN (-2^{31})$ and INT_MAX $(2^{31}-1)$

Pseudocode :
```
atoiConversion (str, N) {
    result = 0
    neg = false
    nR = false
    for(i = 0 → N-1) {
        if(str[i] == ' ' && !nR) {
            continue
        }
        if(str[i] == '-' && !nR) {
            neg = true
            nR = true
            continue
        }
        if(str[i] == '+' && !nR) {
```

```
            neg = false
            nR = true
            continue
      }
      if (str[i] > '9') {
            break
      }
      result = result * 10 + (int) str[i]
      nR = true
}
result = neg ? -1 * result : result
result = result > INT_MAX ? INT_
                                MAX
                            : result
result = result < INT_MIN ? INT_
                                MIN
                            : result
return result
}
```