Check sign and increase index

remove space and increase index

Do sum of the digits and make a number and increase index

-1

1

yes

no

no

yes

no

yes

no

yes

Check if out of index

Return min

Return max

Check sign

Check if integer is in legal range

get digit value of char

Return sum(number)

Sum multiplies sign

Return 0

Check if out of index

Return 0

Check empty input