

Write a subroutine that takes a character string of 3 characters, (Fahrenheit temp) → convert to a Celsius number (integer).

header for this algorithm
pseudo code.

```
// *****  
// Convert ASCII_F_to_C  
//  
// James Conrad  
// July 20, 1969 - Created  
//  
// This function takes a 3 character string  
// (which represents a Fahrenheit value)  
// and convert it into a Celsius integer value  
//  
// Inputs: string (4 char, includes null)  
// Outputs: integer (-1 if invalid input)  
// Range of inputs is "000" to "999"
```

ECGR 4101/5101 Lecture 8

(2)

Check string for valid characters
(`'0'` to `'9'`)

if invalid chars, return -1

Convert string to the number Fahrenheit

$$\text{Celsius} = (\text{Fahrenheit} * 5/9) - 32$$

Return Celsius