

Text File I/O

Write a function called **char_counter** that counts the number of a certain character in a text file. The function takes two input arguments, **fname**, a char vector of the filename and **character**, the char it counts in the file. The function returns **charnum**, the number of characters found. If the file is not found or **character** is not a valid char, the function return -1. As an example, consider the following run. The file "simple.txt" contains a single line: "This file should have exactly three a-s..."

```
charnum = char_counter('simple.txt','a')
charnum =
    3
```

You may find it helpful to download the files for testing and debugging in MATLAB.

simple.txt (<https://lcms-files.mathworks.com/content/file/bf0e8826-41ed-4aab-9100-f04e5c0862c0/simple.txt?versionId=u4zDMOU.p96MIJrr4Hc6FEzZNMENPaaS>)

Frankenstein-by-Shelley.txt (<https://lcms-files.mathworks.com/content/file/be4c8d60-482e-48d0-ac10-1ad8edde1926/Frankenstein-by-Shelley.txt?versionId=mauzCyRrdgZWDGf3FOuv8FrDcOdBw8dD>)

Your Function

 Save  Reset  MATLAB Documentation (<https://www.mathworks.com/help/>)

1

Code to call your function

 Reset

1

2

3

type('simple.txt')
charnum = char_counter('simple.txt','a')
charnum = char_counter('Frankenstein-by-Shelley.txt','?')

 Run Function 

Assessment:

Submit 

char_counter('simple.txt','a')
Test with all visible characters
Invalid input
Non existent file