

2. Counting Exceptions

In the file `CountingExceptions/counter.cpp`, you need to write a function named `CountExceptions` that takes a vector of strings and returns a vector of ints (size 3). The purpose of this function is to take a list of book titles and check that they are *valid*, according to the function named `checkName`. The `checkName` function takes a string and raises various exceptions if the name isn't acceptable. The `CountExceptions` function should return a vector with the number of title that raised an `invalid_argument`, a `length_error`, or an `out_of_range` exception.

I've provided an example `checkName` implementation and main function for local testing, however some of the test cases use a variation of `checkName` that looks for different criteria to throw exceptions for. Be sure to use the appropriate header files. Be sure not to alter any files besides the `counter.cpp` file.