Big picture. We are going to write a program where the Main thread gets user input text, and stores it in a new file. Then we will put the filename in a Q, and do that over and over.

A 2nd thread will look at that Q, and when ever it sees a new entry, it will open that Q entry, get the file name, and then read the file and write it back out to the console.

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* Start with the QwithTHreads project.
* Replace the BackAccts class with a new one, FileSpec that has a FileName property and a constructor that sets the FileName property.
* Rename the OurAcctQueue.cs file to FileNameQueue. Do that over in the solution explorer so that the project will auto-adapt to the new name.
* Fix this FileNameQueue to use the new FileSpec class instead of the former BankAccts class.
* Now modify the Program.cs
  + You will have two threads, one is the existing Main method, which I will call T1, the second one, T2, you will have to create such that it accepts a delegate method.
* Early in the T1 code, using C# code, create a new directory at C:\\Users\\youraccountname\\Documents\\FilesToWrite
* You should modify the names of your instantiated queue, get rid of the fakeData array, and the “for loop”. Replace it with:
  + An infinite While loop. Inside the while loop, ask the user to type in a sentence.
  + If they enter a 7, exit the loop, **and abort the T2 thread**, and then exit T1 (Main)
  + If they type anything else,
    - Create a new file name, figure out some way of naming the files to be auto-generated but fairly unique, but before you create the file, verify it does not already exist. If it does, pick a new name, just create a new file name. (I just used a random number between 1 and 100.)
  + Use the TextWriter class to write the user’s input into a file with that name
  + Create a new FileSpec object using that filename, and add it to the queue.
* Now debug all this. You should be able to enter a few phrases, and see them show up inside of text files in the correct directory. (Comment out the starting of the 2nd thread just for now, to test the T1.)
* Now move onto the 2nd thread. (re-enable starting the 2nd thread)
  + It should be an infinite loop
  + and in the loop it should pull things out of the queue as they appear,
  + use the FileSpec filename property to read that file using TextReader and write out the text to the console,
  + **and then delete that file.**
  + In the loop, if the queue is empty, sleep for 4 seconds before checking again
* **Make sure you close your file writers and readers each time**