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Character Copy

The Kata

In the interest of better understanding NSubstitute, write a character copier class that reads characters from a source and copies them to a destination. It must copy and write one character at a time.

To do this create a Copier class that takes in a ISource and IDestination. ISource has one method *char ReadChar()* and IDestination has one method *void WriteChar(char c)*. The Copier class has one method *void Copy()* that when called reads from the ISource one character at a time and write to IDestination as seen in Figure 1 below.

The copying and writing is done character at a time until a newline ('\n') is encountered. Then the processing stops without writing the newline. Only the Copier class may exist as a concrete. You are to use NSubstitute to implement ISource and IDestination.

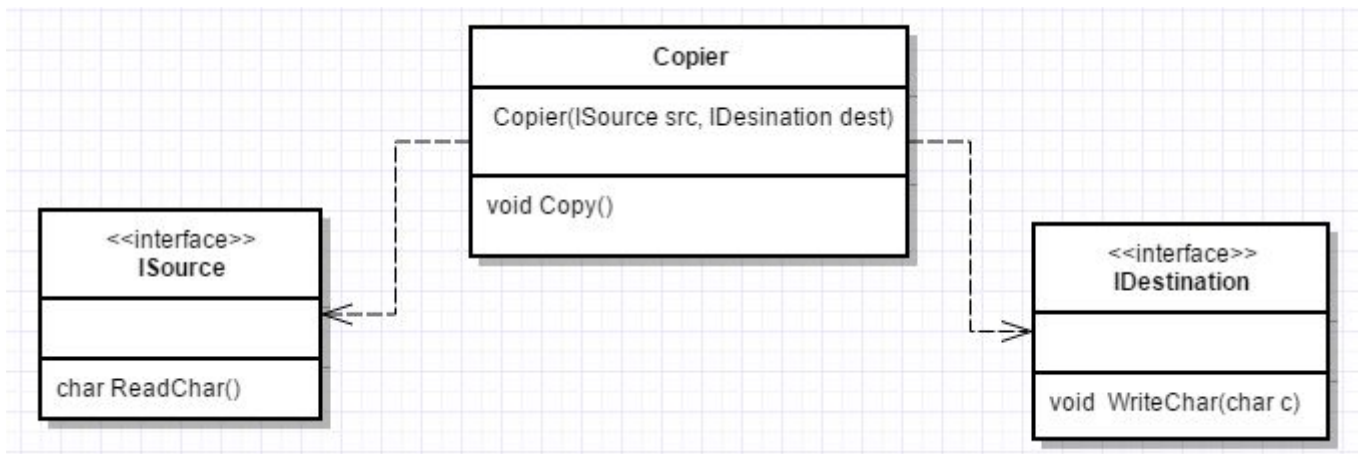


Figure 1: Class Diagram

Help

NSubstitute's documentation <http://nsubstitute.github.io>

Bonus

Once you have a single character working add a new method to both the ISource and IDestination that take will read and write multiple characters at a time. E.g. *ReadChars(int count)*, *WriteChars(char[] values)*. Be mindful not to read beyond the newline when copying between source and destination.