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Description: Amazon Challenge

Notes:

1. You can build the solution (by using MSbuild) without having a Visual Studio environment by executing the batch file: build.bat.

2. The MSBuild targets .Net framework version v4.0.30319 on this location c:\Windows\Microsoft.NET\Framework64\v4.0.30319\msbuild.exe.

3. The exe is located in this path \AmazonWebservicesAlgorithm\AmazonWebservicesAlgorithm\bin\Debug.

4. You are able to run the unit test batch separately as well on this location AmazonWebservicesAlgorithm\AmazonWebservicesAlgorithm\AmazonWebservicesAlgorithm.Test\bin

NB: MSTest and Visual Studio are tightly coupled so you cannot use MSTest without visual studio unfortunatley, for that we would need another solution.

Comments:

-I have written the code to be a lot more readable:

private int CountLuckyWords(String sentence)

{

int luckyWordsCount = 0;

string[] words = sentence.Split(' ');

foreach (string word in words)

{

int count = 0;

foreach (char character in word)

{

if ((int)(character - 'a') % 2 == 0)

count++;

}

if (count >= 4)

luckyWordsCount++;

}

return luckyWordsCount;

}

-The performance on using either a "for" or a "foreach" loop is not so significant, but the readability favours the foreach loop.

-I have included some unit test to verify that the class LuckySentence does what it's suppose to do.

-If it was a bigger or more complex solution my choice of testing framework would be NUnit as it would allow me to mock my test objects and more advanced stuff.