**Proofpoint Essentials - Valid Sentence Coding Test**

Please complete this coding assignment using any coding language that you feel is appropriate. We will review your code with you during the interview. Take as long as you need to complete the assignment to a quality level that you feel is ready to plug into software that ships to customers!

**Coding Problem**

Can you determine if a string is a “valid” sentence, based on a simple set of rules?

For the purposes of this problem, a “valid” sentence is defined as:

* String starts with a capital letter.
* String has an even number of quotation marks.
* String ends with one of the following sentence termination characters: ".", "?", "!"
* String has no period characters other than the last character.
* Numbers below 13 are spelled out (”one”, “two”, "three”, etc…).

Here are some examples:

Valid sentences:

*The quick brown fox said “hello Mr lazy dog”.*

*The quick brown fox said hello Mr lazy dog.*

*One lazy dog is too few, 13 is too many.*

*One lazy dog is too few, thirteen is too many.*

*How many "lazy dogs" are there?*

Invalid sentences

*The quick brown fox said "hello Mr. lazy dog".*

*the quick brown fox said “hello Mr lazy dog".*

*"The quick brown fox said “hello Mr lazy dog."*

*One lazy dog is too few, 12 is too many.*

Are there 11, 12, or 13 lazy dogs?

There is no punctuation in this sentence

**Write a function that determines if an input string is a “valid” sentence.**

*As well as a working solution, we will look for good structure, style, proper use of language idioms, testability, unit tests, comments, etc.”*

*Please note, due to our leading email scanning and detection engines, code submissions via email will likely be blocked so we’d ask you to please submit your code via an online code repo of your choosing such as GitHub, GitLab or Bitbucket. Please do not refer to Proofpoint in the submission and remember to remove the code after the interview process concludes.*