

## Capital One - Coding Challenge

### FAQ's

**Question:** In the technical assessment PDF, it gave a few examples of code that the program should be able to process. Syntax for single-line and multi-comment strings vary per coding language (e.g. # for Python single-line comment vs // for Java single-line comment). Thus, am I to assume that the only syntax for single and multi-line comments are from the ones in the PDF? What coding languages should it be able to handle?

**Answer:** We leave this open to your interpretation. If you were to design a system would you like it to work for select languages or be more generic?

The questions are open ended to allow room for creativity and interpretation. Please state any assumptions you make when solving the problem.

**Question:** To confirm, the total number of lines is every single line in the given file, including empty lines?

**Answer:** Yes, the total number of lines in a file includes empty lines. Please refer to the 3 examples in the PDF to see this.

**Question:** If the third example is in Python, where # is used for single-line comments and ''' is used to start multi-line comments, can the number of comments, single-line comments, multi-line comments, and comment blocks for this example be verified (e.g. the pdf says 9 single-line comments for Example 3 but there are 19 single-line comments in the actual example code)?

**Answer:** Please state your assumptions as to what you assume to be single and multi-line comment and we will evaluate with these assumptions.

**Question:** Should it be assumed that the comment-enabling characters are not a part of strings (e.g. a # in Python that appears in a string would no longer be a single-line comment)?

**Answer:** Please state your assumptions when solving the problem and we will review them accordingly

**Question:** To confirm, is a single file always given as the input (e.g. it will not be given a list of files to check)?

**Answer:** This is up to you to decide as we have left the problem open ended - we want to see where your creativity takes you, but please do not spend too much time on this, we understand you are busy now so please judge your time accordingly.