

# Financial Risk Analytics - Development Assignment

## Disclaimer

The information contained in this document is confidential. Any unauthorized use, disclosure, reproduction or dissemination, in full or in part, in any media or by any means, without the prior written permission of IHS Markit or any of its affiliates ("IHS Markit") is strictly prohibited.

### **Problem**

Find all palindromes in a string, and print them, along with their starting position and length, sorted by their length.

#### **Example**

#### Input

#### ABCBAHELLOHOWRACECARAREYOUILOVEUEVOLIIAMAIDOINGGOOD

#### Result:

ILOVEUEVOLI,26,11

RACECAR,13,7

ABCBA,0,5

IAMAI,37,5

OHO,9,3

ARA,18,3

RAR, 19, 3

LL,7,2

11,36,2

GG,46,2

00,48,2

#### **Notes**

- A palindrome is a string that reads the same when reversed, e.g., "madam". One-character strings are not palindromes.
- Use whatever language you are most comfortable in to code the assignment.
- Please provide a tested solution with unit tests included.
- Please provide time/space complexity of the solution and guidance on how to run it with an arbitrary string.
- Consider creating a GitHub project to share the code with us, where a root README.md file may be used to document your project as you deem appropriate.