

MAT Software Team Coding Challenge

Task

Write an application that finds the 3 longest *unique* palindromes in a supplied string. For the 3 longest palindromes, report the palindrome, start index and length, in descending order of length.

Example Output

Given the input string: `sqrrqabccbatudefggfedvwhijklklkjihxymnmzpop`, the output should be:

```
Text: hijklkljih, Index: 23, Length: 10
```

```
Text: defggfed, Index: 13, Length: 8
```

```
Text: abccba, Index: 5 Length: 6
```

Deliverables

- Your solution may be submitted in a language of your choice.
- Please include instructions for how to build and run your code.
- Don't forget to include any tests in the package.

Guidance

- You shouldn't spend more than a couple of hours on the solution.
- We expect candidates to create code that is production quality - the solution should be correct, reliable, maintainable, reusable, portable and efficient.
- For further guidance see *Clean Code: A Handbook of Agile Software Craftsmanship* by Robert C. Martin.