Software Code Metrics

**DeEncrpt**

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We have used Junit to find Software Code Metrics. We found various results from the build. All the results are listed below:

**Playfair --Metrics**

There are 4 functions in this file.

Function with the largest signature take 2 arguments, while the median is 1.

Largest function has 21 statements in it, while the median is 8.5.

The most complex function has a cyclomatic complexity value of 6 while the median is 3.

**Caesar/rot-13--Metrics**

There are 2 functions in this file.

Function with the largest signature take 2 arguments, while the median is 1.5.

Largest function has 11 statements in it, while the median is 8.

The most complex function has a cyclomatic complexity value of 5 while the median is 4.5.

**Vigenere--Metrics**

There are 6 functions in this file.

Function with the largest signature take 2 arguments, while the median is 1.

Largest function has 11 statements in it, while the median is 3.

The most complex function has a cyclomatic complexity value of 5 while the median is 2.5.

**Atbash -- Metrics**

There are 2 functions in this file.

Function with the largest signature take 1 arguments, while the median is 0.5.

Largest function has 10 statements in it, while the median is 10.

The most complex function has a cyclomatic complexity value of 5 while the median is 4.5.

**Vernam --**

There are 2 functions in this file.

Function with the largest signature take 2 arguments, while the median is 2.

Largest function has 3 statements in it, while the median is 2.

The most complex function has a cyclomatic complexity value of 1 while the median is 1.

**Solitare -- Metrics**

There are 36 functions in this file.

Function with the largest signature take 4 arguments, while the median is 1.

Largest function has 24 statements in it, while the median is 2.

The most complex function has a cyclomatic complexity value of 11 while the median is 1.5.

**Rail-fence --Metrics**

There are 2 functions in this file.

Function with the largest signature take 1 arguments, while the median is 0.5.

Largest function has 20 statements in it, while the median is 19.5.

The most complex function has a cyclomatic complexity value of 9 while the median is 9.

**XOR --**

Metrics

There are 3 functions in this file.

Function with the largest signature take 1 arguments, while the median is 1.

Largest function has 7 statements in it, while the median is 4.

The most complex function has a cyclomatic complexity value of 3 while the median is 2.

**HILL --Metrics**

There are 2 functions in this file.

Function with the largest signature take 0 arguments, while the median is 0.

Largest function has 33 statements in it, while the median is 25.

The most complex function has a cyclomatic complexity value of 11 while the median is 8.5.

**Table: WA Metrics at system level**

|  |  |
| --- | --- |
| Metric Name | Description |
| TotalWebPage# | 7 🡪client page  8🡪 server page |
| TotalLOC# | 2796 |
| ServerScript# | 6 |
| ClientScript# | 4 |
| WebObject# |  |
| InterfaceObject# | 20 |
| TotalData# |  |
| I/OField# | 24 |
| TotalConnectivity# | 10 |
| TotalLanguages# | 5 |

We have total of 59 functions in our website. To find out Cyclomatic Complexity we divide Aggregated value of Cyclomatic Complexity with total number of functions.

Therefore, Cyclomatic complexity = 0.94.