# Test Case Metrics Summary

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Phase I:  Plotting Line Graph | Phase II:  Random Walks | Phase III:  Rolling Dice | Total |
| Number of test cases planned: | 5 | 5 | 5 | 15 |
| Test Cases Executed: | 1 | 15 | 20 | 36 |
| Test Cases Passed: | 1 | 1 | 1 | 3 |
| Test Cases Failed: | 0 | 14 | 19 | 33 |

# Unit Test Cases

## Phase I: Plotting Line Graph

|  |  |  |  |
| --- | --- | --- | --- |
| Software Requirement <#> | | | |
| Related Code | | Related Output/Image | |
|  | |  | |
| Unit Test | | | |
| Description: Plot a line on a graph | | | |
| Recommendations: | | | |
| Passed? | Yes | **Comments:** | **N/A** |

## Phase II: Random Walk

|  |  |  |  |
| --- | --- | --- | --- |
| Software Requirement <#> | | | |
| Related Code | | Related Output/Image | |
| Figure : set colormap value to ‘plasma’    Figure : set initial anf last point details    Figure : Set to dark background | | Random Walks visual ScatterGraph | |
| Unit Test | | | |
| Description: The majority of my time was spent fine-tuning the aesthetics of the walk, as the functionality gave me no trouble whatsoever. | | | |
| Recommendations: | | | |
| Passed? | Yes | **Comments:** | **This is a very simple program that can produce some very beautiful output.** |

## Phase III: Dice Roll

|  |  |  |  |
| --- | --- | --- | --- |
| Software Requirement <#> | | | |
| Related Code | | Related Output/Image | |
| Text  Description automatically generated with medium confidence  A picture containing text  Description automatically generated  Text  Description automatically generated with low confidence | | Bar Chart with information about 36 dice rolls  Figure : 36 dice rolls on 12 sided dice  Bar Chart with information about 36 dice rolls  Figure : 360 dice rolls on 12 sided dice  Bar Chart with information about 36 dice rolls  Figure : 3600 dice rolls on 12 sided dice  Bar Chart with information about 36 dice rolls  Figure : 360,000 dice rolls on 12 sided dice | |
| Unit Test | | | |
| Description: This program was designed to spedifically allow user input to determine the number of sides of the dice and the number of tests to perform. It is noticable that the larger the number of tests the more Normal the graph becomes. | | | |
| Recommendations: | | | |
| Passed? |  | **Comments:** |  |

# Overall Software Test Recommendations & Conclusions

Overall recommendations for tests include trying different numbers of tests and sides for dice, different designs to emphasis the random walk, and focusing on testing different cases.