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## Lab 3 Test Plan

| Calling Function   | Variable | Test Case                    | Input Values | Driver Functions     | Expected<br>Outcomes    | Actual<br>Outcomes         |
|--------------------|----------|------------------------------|--------------|----------------------|-------------------------|----------------------------|
|                    |          | Negative number              | userIn<0     |                      | Please re-enter         | Please re-enter            |
|                    |          | Out of bounds: High          | userIn>2     |                      | your choice as an       | your choice as             |
|                    |          | Out of bounds: Low           | userIn<1     |                      | integer 1 (Play a       | an integer 1               |
|                    |          | First digit: Letter          | userIn==a    |                      | game) or 2 (Quit        | (Play a game) or           |
| mainManuValidata() | ucorln   | First digit: Non-<br>numeric | userIn==_1   | warMenu()::warMenu   | the game):              | 2 (Quit the game):         |
| mainMenuValidate() | userIn   | First digit: Blank           | userIn== 1   | warMenu::endOfGame() | User prompted to        |                            |
|                    |          | Space                        | userIn==' '  |                      | enter new value         | User prompted              |
|                    |          | Multiple digits              | userIn==12   |                      |                         | to enter new value         |
|                    |          | Correct range                | userIn==1    |                      | Return int value 1 or 2 | Return int value 1 or 2    |
|                    | userIn   | Negative number              | userIn<0     |                      | Please re-enter         | Please re-enter            |
|                    |          | Out of bounds: High          | userIn>2     |                      | your choice as an       | your choice as             |
|                    |          | Out of bounds: Low           | userIn<1     |                      | integer 1 (for player   | an integer 1 (for          |
|                    |          | First digit: Letter          | userIn==a    |                      | 1) or 2 (for player     | player 1) or 2             |
|                    |          | First digit: Non-            | userIn==_1   |                      | 2):                     | (for player 2):            |
| playerValidate()   |          | numeric                      |              | warMenu::gameInfo()  |                         |                            |
|                    |          | First digit: Blank           | userIn== 1   |                      | User prompted to        | User prompted              |
|                    |          | Space                        | userIn==' '  |                      | enter new value         | to enter new               |
|                    |          | Multiple digits              | userIn==12   |                      |                         | value                      |
|                    |          | Correct range                | userIn==1    |                      | Return int value 1 or 2 | Return int value<br>1 or 2 |

| warInfoValidate() | userIn | Extremely large number  Lower bound number  Negative number  First digit: Letter | userIn==1 userIn<0 userIn==a      | warMenu::gameInfo() | 1 round of war printed to consol Please enter a positive integer | Large list of round outcomes is printed. However, top few rounds are cutoff from consol 1 round of war printed to consol Please enter a positive integer |
|-------------------|--------|--|-----------------------------------|---------------------|--|--|
|                   |        | First digit: Non-<br>numeric<br>First digit: Blank<br>Space                      | userIn==_1 userIn== 1 userIn==' ' |                     | value (without spaces, commas, or periods) greater than 0:       | value (without spaces, commas, or periods) greater than 0:   |
|                   |        | Multiple digits  | userIn==12                        |                     | Prompt user to enter new value  12 rounds of war                 | Prompt user to enter new value  12 rounds of war   |
|                   |        | Correct range  | userIn==5                         |                     | 5 rounds of war<br>printed to consol                             | printed to consol 5 rounds of war printed to consol  |
|                   | userIn | Extremely large number   | userIn==1000                      | warMenu::gameInfo() | Die with 1000 sides is generated                                 | Die with 1000<br>sides is<br>generated   |
|                   |        | Out of bounds: low   | userIn<1                          |                     | Please enter a   | Please enter a   |
|                   |        | Negative number  | userIn<0                          |                     | positive integer   | positive integer   |
| dieInfoValidate() |        | First digit: Letter  | userIn==a                         |                     | value (without   | value (without   |
|                   |        | First digit: Non-<br>numeric   | userIn==_1                        |                     | spaces, commas, or periods) greater                              | spaces, commas, or periods)  |
|                   |        | First digit: Blank   | userIn== 1                        |                     | than 1   | greater than 1   |
|                   |        | Space  | userIn==' '                       |                     | Prompt user to enter new value                                   | Prompt user to enter new value   |

|  | Multiple digits | userIn==12 | Die with 12 sides is | Die with 12 sides |
|--|-----------------|------------|----------------------|-------------------|
|  |                 |            | generated            | is generated      |
|  | Correct range   | userIn==5  | Die with 5 sides is  | Die with 5 sides  |
|  |                 |            | generated            | is generated      |