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Click or tap here to enter text.

**See the activity instructions and the Programming Test Cases.docx**

**Specify your test cases for the Black box program.**The number of rows below are for convenience; they do not indicate the minimum or maximum number of cases expected.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Description** | **+ / − Purpose** | **Data Input** | **Expected Output** | **Actual output if unexpected** | **Success?** | **Comments** |
| **To check that the program runs properly** | **+** | **ppppppppp**  **&**  **7** | **P is at 7th position** | **Actual output is same as expected** | **PASS** | **No comment** |
| **To check the logic** | **-** | **wwww**  **&**  **23** | **Nothing at 23rd position** | **Actual output is same as expected** | **PASS** | **No comments** |
| **To check the whether the program breaks** | **+** | **pp**  **&**  **2** | **W at 2nd position** | **Nothing at the 2nd position** | **FAIL** | **There is a problem with logic of program** |
| **To check the whether the program breaks** | **+** | **dddddd**  **&**  **0** | **Show an error message** | Program breaks | **FAIL** | **We have to change some part of logic and with 0th position we have to print error message** |
| **Checking by different characters** | **+** | **erererere**  **&**  **3** | **e at 3rd position** | **Same as expected** | **PASS** | **No comments** |
| **Checking by different characters** | **+** | **erererere**  **&**  **6** | **r at 6th position** | **Same as expected** | **PASS** | **No comments** |
| **Checking by the position** | **-** | **uuuuuuuu**  **&**  **65** | **Nothing at 65th position** | **5 at the 65th position** | **FAIL** | **There is some magical number in the code** |
| **Checking by different input** | **+** | **545454**  **&**  **2** | **4 at 2nd position** | **5 at 2nd position** | **FAIL** | **Not working with different strings of character** |
| **Checking by different input** | **-** | **545454**  **&**  **40** | **Nothing at 40th position** | **Same as expected** | PASS | **No comments** |
| **Checking wether logic runs properly with different character** | **+** | **4dsdt4wdttr**  **&**  **4** | **D at 4th position** | **T at 4th position** | **FAIL** | **Something is wrong with logic** |

**Specify your test cases for the White box program.**The number of rows below are for convenience; they do not indicate the minimum or maximum number of cases expected.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Description** | **+ / − Purpose** | **Data Input** | **Expected Output** | **Actual output if unexpected** | **Success?** | **Comments** |
| **To check the program** | **+** | **X - 4,6,3**  **O - 5,2,8** | **O is winner** | **O is winner** | **PASS** | **No comments** |
| **To check the logic** | **-** | **X – 0**  **O – 0** | **Show an error message** | **Nothing happens** | **FAIL** | **Input error message when 0** |
| **To check the program** | **+** | **X – 3,4,7**  **O – 2,6,8** | **X is winner and game will be stop** | **X is winner and game continues with the same message of x is winner** | **FAIL** | **End the game when winner is declared and then reset the game** |
| **To check the logic** | **+** | **X – 1**  **O – 1** | **Show an error that 1 is already taken** | **1 assign to both** | **FAIL** | **If one player select any number that is not select by the other player** |
| **To check the program** | **-** | **X – 11**  **O – 14** | **Show an error** | **Nothing happens** | **FAIL** | **Change the logic if nuber exceeds to 9 then shows a error message** |
| **To check the logic** | **+** | **X – 1,4,2,1,4,2**  **O – 5,6,8,9,5,6** | **Show an error that number is already selected chose another** | **Taking the input of same number many times** | **FAIL** | **Correct the logic and do not accept the number that is selected ones** |
| **To check the game is draw or not** | **+** | **X – 1,3,5,7,9**  **O – 2,4,6,8** | **Game is draw** | **Continues the games** | **FAIL** | **End the game when it is draw and then reset the new game** |
| **To check the logic** | **+** | **X – 3,6,9**  **O – 4,5,6** | **X is winner and game reset** | **X is winner and o is also winner** | **FAIL** | **When the winner is declared stop the game and reset it** |
| **To check the program** | **+** | **X – 1,5,9**  **O – 2,3,** | **X is winner** | **X is winner** | **PASS** | **No comments** |
| **To check the program** | **+** | **X – 2,6,7,8**  **O – 1,5,9** | **O is winner** | **O is winner** | **PASS** | **No comments** |