**Desk Check**

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| --- | --- | --- | --- | --- |
| **User Guess** | **Test Data** | **Expected Output** | **Actual Output** | **Reason for Inclusion** |
| y y y y | r g b p |  |  | Testing if the user inputs no correct colours |
| r r r r | y p b g |  |  |  |
| b b b b | p g y r |  |  |  |
| y y y r | r g b p | W | W | Testing if the user inputs one correct colour, wrong place |
| r r r y | y p b g | W | W |  |
| b b b p | p g y r | W | W |  |
| y y r g | r g b p | W W | W W | Testing if the user inputs two correct colours, wrong place |
| r r p y | y p b g | W W | W W |  |
| b b g p | p g y r | W W | W W |  |
| y p g b | r g b p | W W W |  | Testing if the user inputs three correct colours, wrong place |
| r g p y | y p b g | W W W | W W W |  |
| b r g y | p g y r | W W W | W W W |  |
| p b g r | r g b p | W W W W | W W W W | Testing if the user inputs four correct colours, wrong place |
| g b p y | y p b g | W W W W | W W W W |  |
| r y g p | p g y r | W W W W | W W W W |  |
| y y y p | r g b p | B | B | Testing if the user inputs one correct colour, right place |
| r r r g | y p b g | B | B |  |
| b b b r | p g y r | B | B |  |
| y y b p | r g b p | B B | B B | Testing if the user inputs two correct colours, right place |
| r r b g | y p b g | B B | B B |  |
| b b y r | p g y r | B B | B B |  |
| y g b p | r g b p | B B B | B B B | Testing if the user inputs three correct colours, right place |
| r p b g | y p b g | B B B | B B B |  |
| b g y r | p g y r | B B B | B B B |  |
| r g b p | r g b p | WIN | WIN | Testing if the user successfully guesses the combination |
| y p b g | y p b g | WIN | WIN |  |
| p g y r | p g y r | WIN | WIN |  |
| y y g p | r g b p | B W | B W | Testing if the user inputs one correct colour, right place and one correct colour, wrong place |
| r r p g | y p b g | B W | B W |  |
| b b g r | p g y r | B W | B W |  |
| y r g p | r g b p | B W W | B W W | Testing if the user inputs one correct colour, right place and two correct colours, wrong place |
| r y p g | y p b g | B W W | B W W |  |
| b p g r | p g y r | B W W | B W W |  |
| r b p g | r g b p | B W W W | B W W W | Testing if the user inputs one correct colour, right place and three correct colours, wrong place |
| y b g p | y p b g | B W W W | B W W W |  |
| p y r g | p g y r | B W W W | B W W W |  |
| r g y b | r g b p | B B W | B B W | Testing if the user inputs two correct colours, right place and one correct colour, wrong place |
| y p r b | y p b g | B B W | B B W |  |
| p g b y | p g y r | B B W | B B W |  |
| r g p b | r g b p | B B W W | B B W W | Testing if the user inputs two colour colours, right place and two correct colours, wrong place |
| y p g b | y p b g | B B W W | B B W W |  |
| p g r y | p g y r | B B W W | B B W W |  |
| r g p b | r g b p | B B B W | B B B W | Testing if the user inputs three correct colours, right place and one correct colours, wrong place |
| y p g b | y p b g | B B B W | B B B W |  |
| p g r y | p g y r | B B B W | B B B W |  |
| r r r r r | r g b p | Unknown Command Entered | Unknown Command Entered | Testing if the user inputs five colours |
| y y y y y | y p b g | Unknown Command Entered | Unknown Command Entered |  |
| p p p p p | p g y r | Unknown Command Entered | Unknown Command Entered |  |
|  | r g b p | Unknown Command Entered | Unknown Command Entered | Testing if the user doesn’t input anything |
|  | y p b g | Unknown Command Entered | Unknown Command Entered |  |
|  | p g y r | Unknown Command Entered | Unknown Command Entered |  |
| x x x x | r g b p | Unknown Command Entered | Unknown Command Entered | Testing if the user inputs non-colours |
| x x x x | y p b g | Unknown Command Entered | Unknown Command Entered |  |
| x x x x | p g y r | Unknown Command Entered | Unknown Command Entered |  |
| bbbb | r g b p | B | B | Testing if the user inputs no spaces |
| bbbb | y p b g | B | B |  |
| bbbb | p g y r |  |  |  |