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### Mastermind Lab Pseudocode

Pseudocode for mastermind() function

Initialize SIZE and dupe as integers

Print "Please enter the size of of pegs you want to play with from 4 and 8"

Do :

    Print "SIZE: "

    Store input in variable SIZE

    If the SIZE is greater than 8 or less than 4 print "INVALID: INPUT OUT OF BOUNDS"

Repeat "Do" while size is greater than 8 or less than 4

Initialize win\_result as a string

Initialize counter and set to 0

if the counter < SIZE:

    concatenate the character '+' to variable win\_result

    increment counter by one

end if

print " please enter whether you want duplicated or not"

    "0. Duplicates OFF"

    "1. Duplicates ON"

Do:

    Print "Duplicates: "

Store input in dupe

If dupe is greater than 1 or less than 0 print "INVALID INPUT OUT OF BOUNDS"

Repeat "Do" while dupe is less than 0 or greater than 1

Initialize two-character arrays named code and guess where their size is based on the user input

Initialize result as a string

Initialize counter and set to 0

If the counter < SIZE:

Concatenate the character '\_' to the string result

Increment counter

End if condition false

Call the function createCode( ) to generate a code for the code array

Initialize a short variable named turn = 0

While turns  $\neq$  10 and result  $\neq$  win\_result:

Print "=====TURN: "<<turn+1<<"=====

Call function enterGuess() to input your guess

Increment turns

Call printCode() to print your array

Set result = getResult()

Print " result: " + result

End while-loop

If result == win\_result

Print "congrats you won!!"

"You won in " + turns + " turns"

“the winning code is “

Call printCode() to print the code

Else:

Print “You lost :( “

“The correct code is: “

Call printCode() to print code