Define "random\_list" function (receives "quaniy", "minimum" and "maximum"

Set "result" to an empty list

Repeat “quantity” times

Generate a random number between "minimum" and "maximum"

Add number to "result"

Return "result"

##############################################

Display welcome message

Prompt user to select a difficulty

Endless Loop

If difficulty is in [E, M, H]

Break out of loop

Re-prompt for difficulty

IF difficulty = “E”

Print “Easy difficulty selected!” message

ELSE IF difficulty = “M”

Print “Medium difficulty selected!” message

ELSE

Print “Hard difficulty selected!” message

SET questions to None

SET quantity to None

SET minimum to None

SET maximum to None

IF difficulty = "E"

SET questions to 2

SET quantity to 3

SET minimum to 1

SET maximum to 5

ELSE IF difficulty = "M"

SET questions to 4

SET quantity to 5

SET minimum to 3

SET maximum to 12

ELSE

SET questions to 6

SET quantity to 8

SET minimum to 10

SET maximum to 25

SET score to 0

For each question

Print question the user is up to out of the total number of questions

IF the user is not up to the final question

Generate a list of "quantity" random numbers between "minimum" and "maximum"

ELSE

Print "Challenge questions!" message

Generate a list of "quantity" random numbers between double the "minimum" and double the "maximum"

Generate a random number between 1 and 4

IF number = 1

Print "What is the smallest number in this list?" and display list of numbers generated by "random\_list()"

Prompt for answer

IF answer is correct

Print "Correct!" message

SET score to score + 1

ELSE

Print "Incorrec!t" and the correct answer

ELSE IF number = 2

Print "What is the biggest number in this list?" and display list of numbers generated by "random\_list()"

IF answer is correct

Print "Correct!" message

SET score to score + 1

ELSE

Print "Incorrec!t" and the correct answer

ELSE IF number = 3

Print "What is the sum of the numbers in this list?" and display list of numbers generated by "random\_list()"

IF answer is correct

Print "Correct!" message

SET score to score + 1

ELSE

Print "Incorrec!t" and the correct answer

ELSE

Print "What is the average of the numbers in this list?", followed by list of numbers generated by "random\_list()" and "round UP to nearest integer" message

IF answer is correct

Print "Correct!" message

SET score to score + 1

ELSE

Print "Incorrec!t" and the correct answer

Print "Test complete!" message, followed by the "score" out of questions and the percentage that represent the score

IF score = questions

Print "Perfect score, well done!" message