

Assignment 5

Name: _____

Choose one (1) of the three (3) programs. Make sure to write the flowchart.

Guess My Number

Define the function

Function Name:	GuessNumber()
Parameter(s):	<i>min</i> : int <i>max</i> : int
Return:	void

where `GuessNumber()` randomly selects a number between *min* and *max* inclusively; and then, prompts the user to guess the number until the user guesses correctly.

In the main function,

1. prompt the user to enter two (2) integers.
2. call `GuessNumber()` with the integer inputs as the arguments.

A possible output of the program is:

```
Enter two numbers:  1 10

Guess my number:  5
Incorrect.  Guess Again:  3
Incorrect.  Guess Again:  7
Incorrect.  Guess Again:  1
Incorrect.  Guess Again:  9
You got it!
```

Green text are inputs.

Limited Guess My Number

Define the function

Function Name:	GuessNumber()
Parameter(s):	<i>min</i> : int <i>max</i> : int <i>limit</i> : int
Return:	void

where `GuessNumber()` randomly selects a number between *min* and *max* inclusively; and then, prompts the user to guess the number until the user guesses correctly or reaches *limit* guesses. If the user runs out of guesses, it display the number.

In the main function,

1. prompt the user to enter two (2) integers for min and max.
2. prompt the user to enter a integer for limit.
3. call `GuessNumber()` with the integer inputs as the arguments.

A possible output of the program is:

```
Enter two numbers:  1 10
Enter a limit:  4

Guess my number:  2
Incorrect.  Guess Again:  6
Incorrect.  Guess Again:  7
Incorrect.  Guess Again:  1
Sorry! You ran out of guesses. My number is 9
```

Green text are inputs.

Limited Recorded Guess My Number

Define the function

Function Name:	GuessNumber()
Parameter(s):	<i>min</i> : int <i>max</i> : int <i>limit</i> : int <i>log</i> : int[]
Return:	void

where `GuessNumber()` randomly selects a number between *min* and *max* inclusively; and then, prompts the user to guess the number until the user guesses correctly or reaches *limit* guesses. If the user runs out of guesses, it display the number. Whether or not, the user guesses correctly or runs out of guesses, it displays a list of the user's guesses enclosed in square braces separated by commas.

In the main function,

1. declare an int array with a size of hundred (100).
2. prompt the user to enter two (2) integers for min and max.
3. prompt the user to enter a integer for limit.
4. call `GuessNumber()` with the integer inputs and the array as the arguments.

A possible output of the program is:

```
Enter two numbers:  1 10
Enter a limit:     3

Guess my number:   3
Incorrect.  Guess Again:  5
You got it!
Your guesses were [3,5]
```

Green text are inputs.