

While loop exercises

Name: _____

1. What is the output of this code?

```
num = 1
while num < 64:
    print(num)
    num = num * 2
print(num + 1)
```

2. I've modified the first line. What does the code do now?

```
num = 0
while num < 64:
    print(num)
    num = num * 2
print(num + 1)
```

3. In VSCode, write code that counts from 1 to 100 using a while loop.
4. In VSCode, code a guessing game. Use the random module to generate a random number in some range.
Let the user repeatedly try and guess the number. Tell them if their guess is too high, too low, or out of the range. If they guess correctly, tell them and stop the program.