## Question

A programmer has been asked to write a 'Guess My Number Game' whereby the user is asked to continually enter a number between 1 and 100 until they enter the correct number. The program will begin by storing a number to be guessed and will inform the user if their guess is higher or lower than the number to be guessed.

Write an algorithm in pseudocode using a loop, which will perform the logic above.

## Answer

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***There are always different ways to solve a problem. This algorithm is just an example. What is important is that the logic is correct!***

LOGIC:

- Initialise a variable with an integer to be guessed
- Initialise a variable with an incorrect guess
- Start a loop which will iterate whilst the two variables do not match
- Inside the loop the:
   - INPUT users guess
   - If it is less than number to be guessed, output appropriate message
   - If it is more than number to be guessed, output appropriate message
   - Display winners' messages.

EXAMPLE ALGORITHM:

```
numberToBeGuessed = 72
numberTry = 0
while numberTry != numberToBeGuessed
    numberTry = input("Enter a guess")
    if numberTry < numberToBeGuessed
        print("Too Low")
    elseif numberTry > numberToBeGuessed
        print("Too High")
    endif
endwhile
print("You Got It!")
```

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