

```
correct = False
lowerGuess = 0
higherGuess = 100
guess = 50
print("Enter 0 for guessing lower, 1 for higher, and 2 if it's correct. ")

while correct == False:
    print(guess)

    userInput = input()
    if userInput == "0":
        higherGuess = guess
        guess = round((higherGuess-lowerGuess)/2) + lowerGuess
    elif userInput == "1":
        lowerGuess = guess
        guess = round((higherGuess-lowerGuess)/2) + lowerGuess
    elif userInput == "2":
        print("Ha! You though of " + str(guess))
        correct = True
    if (higherGuess - lowerGuess) == 2:
        print("Ha! You though of " + str(lowerGuess + 1))
        correct = True
```