# Finger Exercises Lecture 6 

The questions below are due on Wednesday September 28, 2022; 03:00:00 PM.

## 1) Question 1 of 1

Assume you are given an integer $0<=\mathrm{N}<=$ 1000. Write a piece of Python code that use bisection search to guess $N$. The code prints two lines: count: with how many guesses it took to find $N$, and answer: with the value of N . Hints: If the halfway value is exactly in between two integers, choose the smaller one.

1 |\# Write your code here

You have infinitely many submissions remaining.

Here is the solution we wrote:
low $=0$
high = 1001
guess = (high+low)//2
count = 1
while guess != N:
if guess < N:
low = guess
elif guess > N:
high = guess
guess = (high+low)//2
count += 1
print("count:", count)
print("answer:",guess)

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### 6.100L Introduction to CS and Programming Using Python

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