[15-112] Lecture 18

Lecture 18: Big-O Worksheet What is the efficiency of the following code?

```
def big0h1(n):
   x = y = 0
   while (x < n):
      while (y < n):
         print("y")
      print("x")
      x += 4
```

```
A. 0(1)
B. 0(N) -> Answer
C. 0(N<sup>2</sup>)
 D. O(log N)
E. O(N log N)
F. I don't know
```

Lecture 18: Big-O Worksheet What is the efficiency of the following code?

```
A. O(1)

L = range(10**4)

for x in range(0, 2**N, 2**N/N**2):
    if x in set(L):
        print ("beep boop")
    print("my heart is in the work")

A. O(1)

B. O(N)

C. O(N^2)

-> Answer

D. O(log N)

E. O(N log N)

F. I don't know
def big0h2(N):
```