**Calculate the worst time complexity of the following programs:**

1. for i in range(n):

i = i\*2

1. def fact\_iter(n):

"assumes n an int >= 0"

answer = 1

while n > 1:

answer \*= n

n -= 1

return answer

1. A = [1, 2, 3, 4]

B = [2, 3, 4, 5, 6]

for i in A:

for j in B:

if i<j:

print('{}, {}'.format(i, j))

4. L = [1, 2, 3, 4, 5, 6, 7, 8]

for i in range(len(L)//2):

other = len(L) - i - 1

temp = L[i]

L[i] = L[other]

L[other] = temp

5. def fib(n):

if n==1 or n==0:

return 1

else:

return fib(n-1) + fib(n-2)