what does each program print?

def pow2(n):

 if n == 0:

 return 1

 else:

 return 2 \* pow2(n-1)

print(pow2(3))

def flip(x):

 return -x

def special\_sum(nums, transform):

 total = 0

 for num in nums:

 total += transform(num)

 return total

print(special\_sum([-4, 1, -2, 0], flip))

for i in range(5):

 try:

 print(2 / (i-2))

 except:

 print("yikes!")

nums = []

def append\_nums(n):

 nums.append(n)

 if n > 1:

 append\_nums(n-1)

 nums.append(n \* 100)

append\_nums(1)

append\_nums(3)

print(nums)

def hello():

 print("hi")

def goodbye():

 print("bye")

def multi\_call(n, fn):

 if fn != None:

 for i in range(n):

 fn()

multi\_call(2, hello)

multi\_call(3, goodbye())