what does each program print?

1

```
def pow2(n):
    if n == 0:
        return 1
    else:
        return 2 * pow2(n-1)
print(pow2(3))
```

2

```
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))
```

3

```
for i in range(5):
    try:
        print(2 / (i-2))
    except:
        print("yikes!")
```

4

```
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)
```

```python
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())
```

(5)