```
1 def fibonacci( int_x ):
2
       print( 'Call:', int_x )
3
4
5
       # Base Case
       if int_x <= 1:</pre>
6
           return 1
7
8
       # Recursive case
9
       return fibonacci(int_x - 1) + fibonacci(int_x - 2)
10
11
12
13 fibonacci(5)
```

```
1 def prob_3( int_val ):
2
3
       if int_val <= 1:</pre>
4
            return 2
5
6
       if int_val % 2 == 1:
            return int_val + prob_3( int_val - 2 )
7
8
9
       else:
           return int_val + prob_3( int_val - 1 )
10
11
12 prob_3( 8 )
```

```
1 def prob_4( x ):
2
3    if x <= 3:
       return 2
5
6    return prob_4( x - 2 ) + prob_4( x - 3 )
7
8    prob_4(6)</pre>
```

```
1 def foo(x):
 2
 3
       if x <= 0:
 4
           return 5
 5
 6
       if x % 2 == 0:
 7
           return x + bar(x-1)
 8
 9
       elif x % 2 == 1:
10
           return x + foo(x-3)
11
12
13
   def bar(x):
14
15
       if x <= 2:
16
           return 4
17
       if x % 2 == 0:
18
           return x + foo(x-3)
19
20
21
       elif x % 2 == 1:
22
           return x + bar(x-1)
23
24
25 foo(12)
```