I confirm that this submission is my own work and is consistent with the Queen's regulations on Academic Integrity

Function 1:
Input Value (Recursive): 7
1
2
4

8
16
5
10
20
40
13
26
52
17
34
11
22
7
Input Value (Non-Recursive): 7
1
2
4
8
16
5
10
20
40
13
26
52
17
34
11
22
7
Input Value (Recursive): 18
1
2
4
8
16
5
10
20

40
13
26
52
17
34
11
22
7
14
28
9
18
Input Value (Non-Recursive): 18
1
2
4
8
16
5
10
20
40
13
26
52
17
34
11
22
7
14
28
9
18
Input Value (Recursive): 19
1
2
4
8
16
5
10
20
40
13
26

52
17
34
11
22
44
88
29
58
19
Input Value (Non-Recursive): 19
1
2
4
8
16
5
10
20
40
13
26
52
17
34
11
22
44
88
29
58
19
Input Value (Recursive): 22
1
2
4
8
16
5
10
20
40
13
26
52
17
34
11
22
Input Value (Non-Recursive): 22

1
2
4
8
16
5
10
20
40
13
26
52
17
34
11
22
Input Value (Recursive): 105
1
2
4
8
16
5
10
20
40
13
26
52
17
34
11
22
44
88
29
58
19
38
76
152
304
101
202
404
808
269
538
179
358

119
238
79
158
316
105
Input Value (Non-Recursive): 105
1
2
4
8
16
5
10
20
40
13
26
52
17
34
11
22
44
88
29
58
19
38
76
152
304
101
202
404
808
269
538
179
358
119
238
79
158
316
105
Function 2:
Input Value (Recursive): 7
2
4

7
Input Value (Non-Recursive): 7
2
4
7
Input Value (Recursive): 18
2
4
6
4
2
5
8
12
18
Input Value (Non-Recursive): 18
2
4
6
4
2
5
8
12
18
Input Value (Recursive): 19
2
4
6
4
2
5
8
12
19
Input Value (Non-Recursive): 19
2
4
6
4
2
5
8
12
19
Input Value (Recursive): 22
2
4
7
4

3
2
4
6
9
14
22
Input Value (Non-Recursive): 22
2
4
7
4
3
2
4
6
9
14
22
Input Value (Recursive): 43
4
3
2
4
6
9
14
3
2
4
6
9
2
4
6
4
2
5
8
12
18
28
43
Input Value (Non-Recursive): 43
4
3
2
4
6
9

14
3
2
4
6
9
2
4
6
4
2
5
8
12
18
28
43
Function 3:
Input Value (Recursive): (0, 7)
0
1
2
3
4
5
6
7
Input Value (Non-Recursive): (0, 7)
0
1
2
3
4
5
6
7
Input Value (Recursive): (1, 18)
1
2
3
4
5
6
7
8
9
10
11
12
13

14
15
16
17
18
Input Value (Non-Recursive): (1, 18)
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
Input Value (Recursive): (4, 19)
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
Input Value (Non-Recursive): (4, 19)
4
5
6
7
8
9
10
11

12
13
14
15
16
17
18
19
Input Value (Recursive): (-1, 22)
-1
0
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
Input Value (Non-Recursive): (-1, 22)
-1
0
1
2
3
4
5
6
7
8
9
10
11
12
13
14

15
16
17
18
19
20
21
22
Function 4:
Input Value (Recursive): (0, 7)
0
2
1
4
7
6
5
3
Input Value (Non-Recursive): (0, 7)
0
2
1
4
7
6
5
3
Input Value (Recursive): (1, 18)
1
3
2
5
8
7
6
4
10
13
12
11
15
18
17
16
14
9
Input Value (Non-Recursive): (1, 18)
1
3
2

5
8
7
6
4
10
13
12
11
15
18
17
16
14
9
Input Value (Recursive): (4, 19)
4
6
5
8
10
9
7
12
14
13
16
19
18
17
15
11
Input Value (Non-Recursive): (4, 19)
4
6
5
8
10
9
7
12
14
13
16
19
18
17
15
11
Input Value (Recursive): (-1, 22)

0
-1
3
2
1
6
5
9
8
7
4
12
11
15
14
13
18
17
20
22
21
19
16
10
Input Value (Non-Recursive): (-1, 22)
0
-1
3
2
1
6
5
9
8
7
4
12
11
15
14
13
18
17
20
22
21
19
16
10