Writing exercise

1. Argument sequence:

N = 1 ⇒ 1
N = 2 ⇒ 1
N = 3 ⇒ 10, 5, 16, 8, 4, 2, 1
N = 4 ⇒ 2, 1
N = 5 ⇒ 5, 16, 8, 4, 2, 1
N = 6 ⇒ 6, 3, 10, 5, 16, 8, 4, 2, 1
N = 7 ⇒ 22, 11, 34, 17, 52, 26, 13, 40, 20, 10, 5, 16, 8, 4, 2, 1
N = 8 ⇒ 4, 2, 1
N = 9 ⇒ 28, 14, 7, 22, 11, 34, 17, 52, 26, 13, 40, 20, 10, 5, 16, 8, 4, 2, 1

2. 2.1 Base cases are 1 and -1
   2.2 Recursive case occurs when base > limit
   2.3 a. print(puzzle(14,10)) ⇒ -1
   b. print(puzzle(4,7)) ⇒ 840 (4x5x6x7)
   c. print(puzzle(0,0)) ⇒ 1
3. show(123) ⇒ 3 2 1
4. show(134) ⇒ 4 3 1 0
5. show(145) ⇒ 5 4 1 1 4 5
6.
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def sum(n):
    if n == 1:
        return 1
    else:
        return 1/n + sum(n - 1)
```
7.
8. ex237(6) ⇒ 6 4 2 1 1 3 1 2 4 6
9. ex238(6) ⇒ 32.