Determine the Number of Steps Required to get Down to 1

For any number, i, the next number in the sequence is i/2 if i is even or 3i+1 if i is odd

12: 9 steps
13: 9 steps
14: 17 steps
15: 17 steps
16: 4 steps
17: 12 steps
18: 20 steps
19: 20 steps
20: 7 steps

```
In [1]: for i in range(5, 21):
                                  # Iterate over the numbers from 5 to 20
        num steps = 0
        curr val = i
                                 # Current value in the sequence begins at i
        curr val /= 2 # divide by 2 if True
           else:
              curr val = 3*curr val+1  # Otherwise multiply by 3 and add 1
           # Print each number followed by the number of steps taken for it to reach 1
        print("{:2d}: {:2d} steps".format(i, num steps))
      5: 5 steps
      6: 8 steps
      7: 16 steps
      8: 3 steps
      9: 19 steps
      10: 6 steps
     11: 14 steps
```