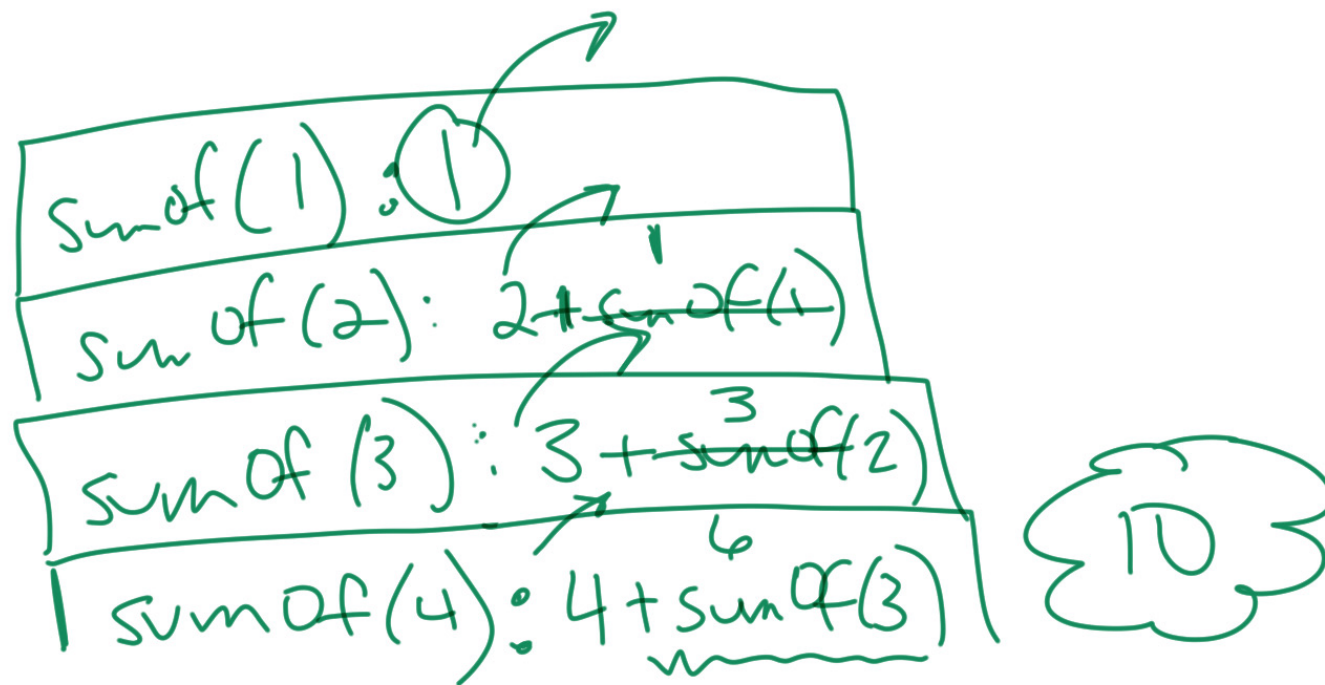


```
5  /** Method that returns the sum of the sequence
6   * of integers from 1 to n, what about n < 0?
7   *
8   * @param n
9   * @return sum from 1 to n
10  */
11  public int sumOf(int n) {
12      int sum;
13      if (n == 1)
14          sum = 1;
15      else
16          sum = n + sumOf(n-1);
17      return sum;
18  }
```

$$\sum_{i=1}^n i = 1 + 2 + 3 + \dots + n$$



```
21  /**
22   * Compute computes  $N! = 1 * 2 * \dots * N$ 
23   * @param n
24   * @return n!
25   */
26  public int factorialRecurse(int n) {
27      if (n > 1)
28          return (n * factorialRecurse(n-1));
29      else
30          return 1;
31  }
32
```

Recursive Execution Trace

