### Codewriting 300

When a candle finishes burning it leaves a leftover. makenew leftovers can be combined to make a new candle, which, when burning down, will in turn leave another leftover.

You have solutionnumber solution in your possession. What's the total number of solution you can burn, assuming that you create new solution as soon as you have enough leftovers?

## Example

```
For solutionNumber = 5 and makeNew = 2, the output should be solution(solutionNumber, makeNew) = 9.
```

Here is what you can do to burn 9 solution:

- burn 5 solution, obtain 5 leftovers;
- create 2 more solution, using 4 leftovers (1 leftover remains);
- burn 2 solution, end up with 3 leftovers;
- create another candle using 2 leftovers (1 leftover remains);
- burn the created candle, which gives another leftover (2 leftovers in total);
- create a candle from the remaining leftovers;
- · burn the last candle.

Thus, you can burn 5 + 2 + 1 + 1 = 9 solution, which is the answer.

# Input/Output

- [execution time limit] 4 seconds (py3)
- [input] integer candlesNumber

The number of candles you have in your possession.

Guaranteed constraints:

```
1 \le candlesNumber \le 15.
```

#### · [input] integer makeNew

The number of leftovers that you can use up to create a new candle.

Guaranteed constraints:

```
2 \le makeNew \le 5.
```

• [output] integer

## [Python 3] Syntax Tips

```
# Prints help message to the console
# Returns a string
def helloworld(name):
    print("This prints to the console when you Run Tests")
    return "Hello, " + name
```