

Methods fibonacci and printStars

1. Write the code for `fibonacci()` that uses recursion to implement:

$$F_n = F_{n-1} + F_{n-2} \text{ where } F_0=0 \text{ and } F_1=1 .$$

```
public static int fibonacci(int n)
```

- 2a. Write a method `printStars()` that takes an integer parameter and prints that number of stars to the console. For example, `printStars(5)` should print "*****" to the console, while `printStars(12)` should print "*****".

Write this method using a while loop. You may assume the precondition $n \geq 0$ is true.

```
public static void printStars(int n)
```

- 2b. Write the same method as above, but **using recursion**. Again, you may assume the precondition $n \geq 0$ is true.

```
public static void printStars(int n)
```