Recursion

http://xeyez.nflint.com/wiki/index.php?title=Recursion

Tips

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```
    public static int sum(int n) {
        if(n <= 0)
            return n;
        return n + sum(n - 1);
    }
```

Factorial

```
    private static int factorial(int n) {
        if(n == 0) //0! = 1
            return 1;
        else
            return n * factorial(n-1);
    }
```

Fibonacci Array

```
    public static int fibonacci(int n) {
        if(n < 1)
            throw new StackOverflowError("1보다 커야 합니다.");
        if(n == 1) {
            return 0;
        }
        else if (n == 2) {
            return 1;
        }
        else {
            return fibonacci(n - 1) + fibonacci(n - 2);
        }
    }
```

Hanoi Tower

```
    public static void hanoiTower(int n, String from, String to, String
temp) {
        if(n == 1) {
            System.out.println(String.format("원반 %d개 %s → %s", n, from,
temp));
        }
        else {
            hanoiTower(n - 1, from, temp, to);
            System.out.println(String.format("원반 %d개 %s → %s", n, from,
temp));
            hanoiTower(n - 1, temp, from, to);
        }
    }
```

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