Recursion (재귀)

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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