

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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