

例题

```
void permutation(String str) {  
    permutation(str, "");  
}  
  
void permutation(String str, String prefix) {  
    if (str.length() == 0) {  
        System.out.println(prefix);  
    } else {  
        for (int i = 0; i < str.length(); i++) {  
            String rem = str.substring(0, i) + str.substring(i + 1);  
            permutation(rem, prefix + str.charAt(i));  
        }  
    }  
}
```

例题

(1)

```
int fib(int n) {  
    if (n <= 0) return 0;  
    else if (n == 1) return 1;  
    return fib(n - 1) + fib(n - 2);  
}
```

(2)

```
void allFib(int n) {  
    for (int i = 0; i < n; i++) {  
        System.out.println(i + ": " + fib(i));  
    }  
}  
  
int fib(int n) {  
    if (n <= 0) return 0;  
    else if (n == 1) return 1;  
    return fib(n - 1) + fib(n - 2);  
}
```

(3)

```
void allFib(int n) {  
    int[] memo = new int[n + 1];  
    for (int i = 0; i < n; i++) {  
        System.out.println(i + ": " + fib(i, memo));  
    }  
}  
  
int fib(int n) {  
    if (n <= 0) return 0;  
    else if (n == 1) return 1;  
    else if (memo[n] > 0) return memo[n];  
  
    memo[n] = fib(n - 1, memo) + fib(n - 2, memo);  
    return memo[n];  
}
```