Lab5: function

Dian-Lun Lin (Luan) Yasin Zamani
Department of Electrical and Computer Engineering
University of Utah , Salt Lake City, UT

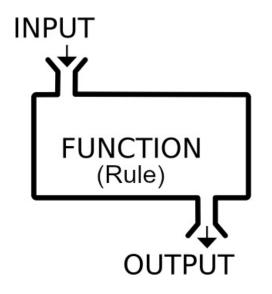


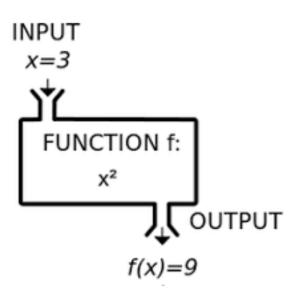
Vim key bindings

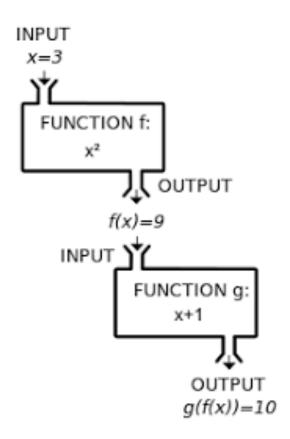
~/.vimrc

```
set nu
imap jj <ESC>
```

Function







Use function in counting last digit

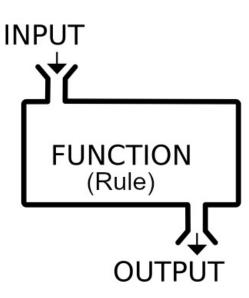
Input: std::cin >> N

Output: The number of 3s as last digit in all numbers from 0 to N

ex: N = 33, output: 4 (3, 13, 23, 33)

For loop version

Design a rule to get the output!



Use function in digital sum of given number N

Input: std::cin >> N

Output: The digital sum of N

ex: N = 1234, output: 10 (1+2+3+4)

```
1 #include <iostream>
2
3 int main() {
4   int N;
5   std::cin >> N:
6   int sum = 0;
7   while(N > 0) {
8     sum += N % 10;
9     N /= 10;
10  }
11   otd::cout << cum << l\n!;
12 }
13</pre>
```

Use function in summation of 1, 2, ..., N

Input: std::cin >> N

Output: Summation of 1, 2, ..., N

ex: N = 10, output: 55 (1+2+3+...+10)

```
1 #include <iostream>
3 int main() {
    int N;
    std::cin >> N;
    int sum = 0;
    for(int i = 1; i <= N; ++i) {
      sum += i;
    Stuffcout << Sum <<
```