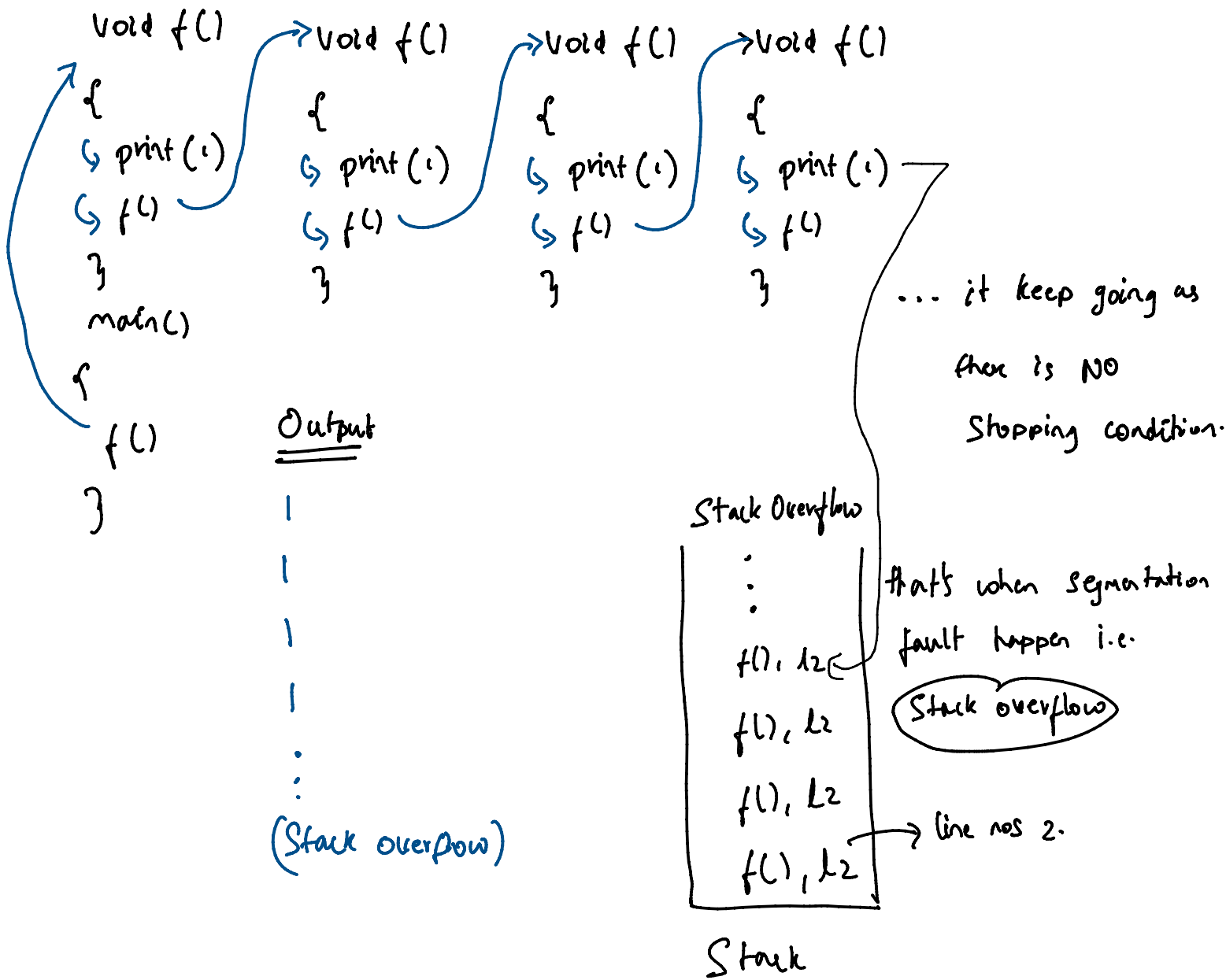
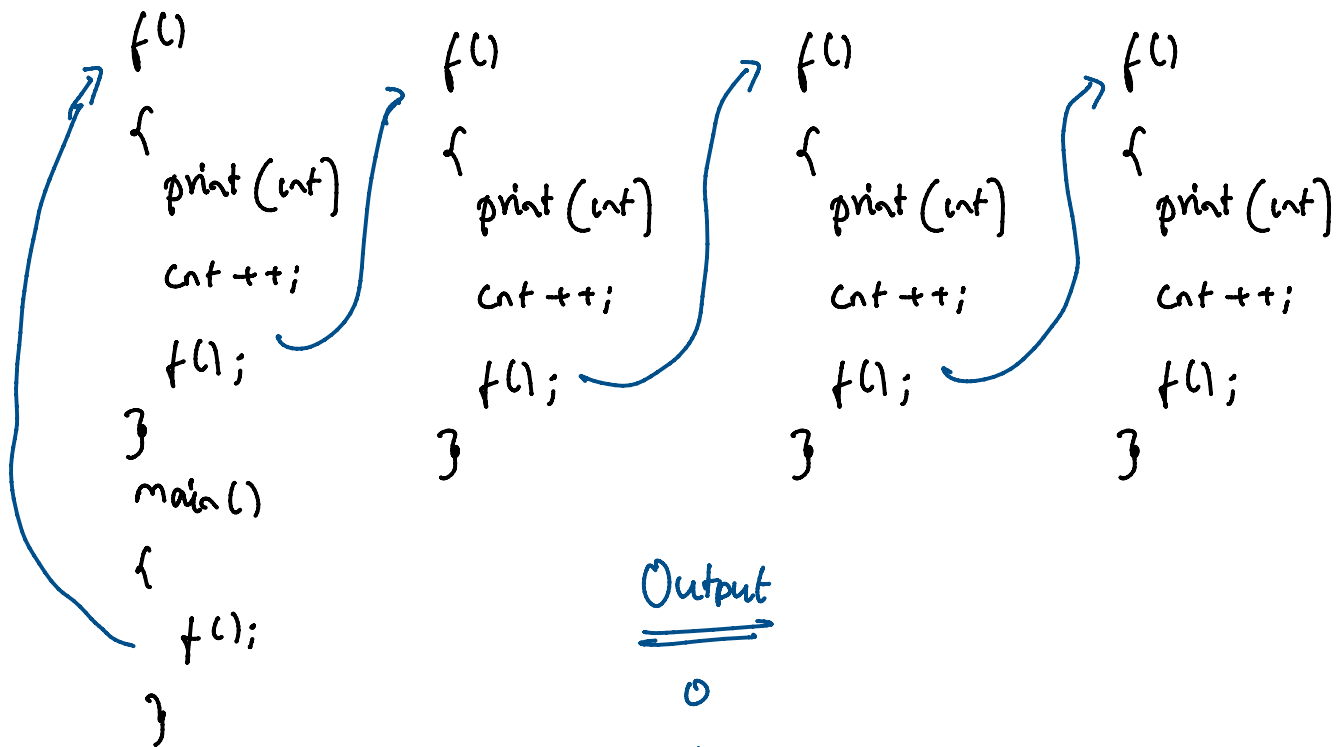


1. Introduction to Recursion

Recursion : * When a function calls itself
* Until a specific condition is met. ↘ Base case



cnt = 0 1 2

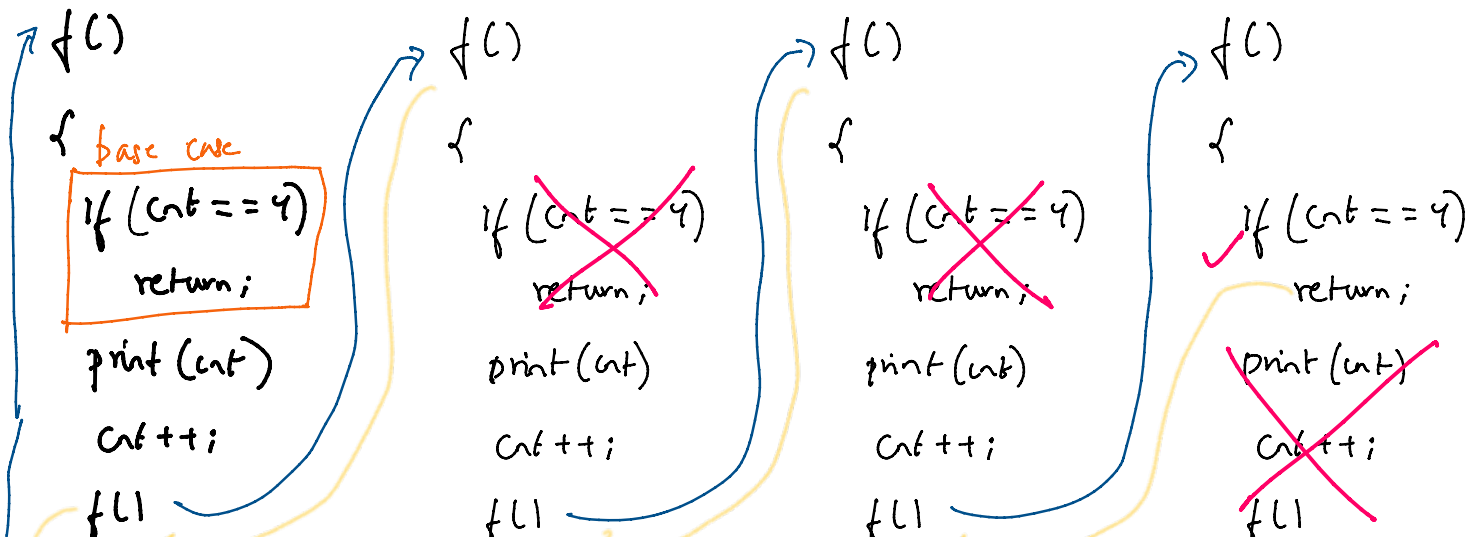


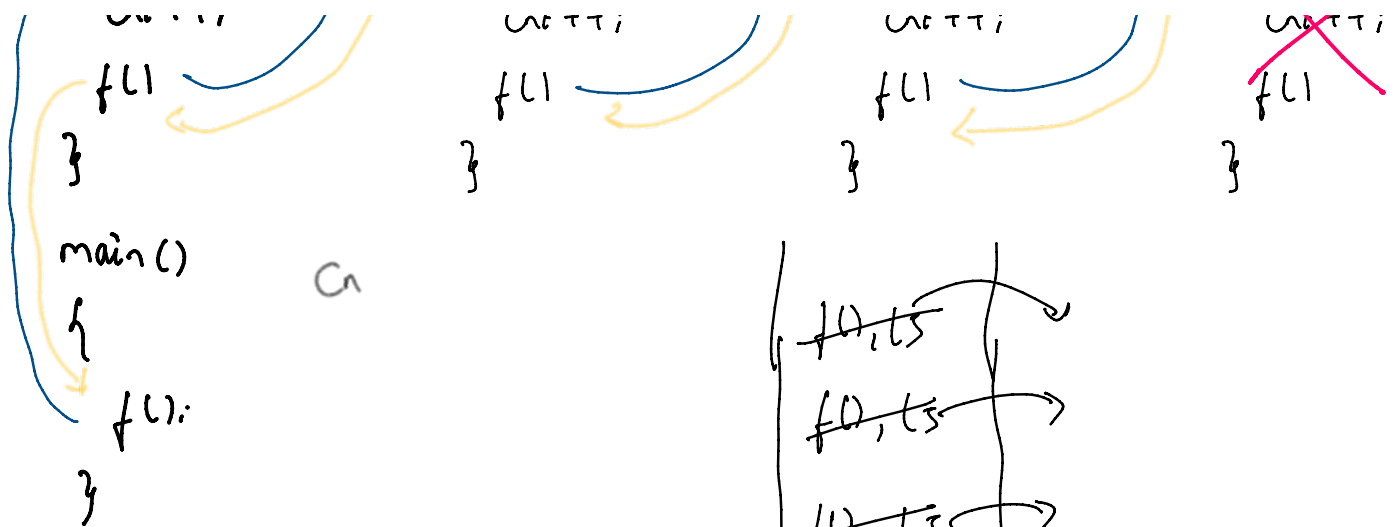
Output

0
1
2
⋮

Q: Program to print till '3'.

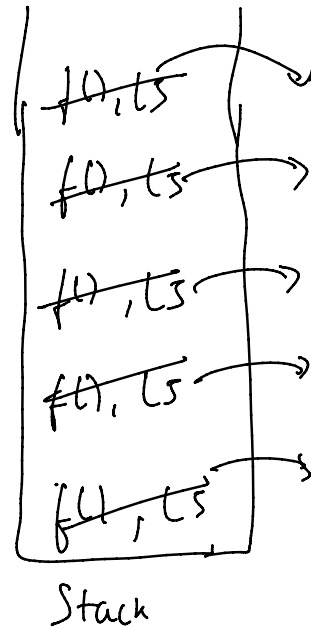
cnt = 0 1 2 3 4





Output

0
1
2
3



```
#include <bits/stdc++.h>
using namespace std;

int cnt = 0;

void print()
{
    if (cnt == 4)
        return;
    cout << cnt << endl;
    cnt++;
    print();
}

int main()
{
    print();
    return 0;
}
```

Recursion Tree:



