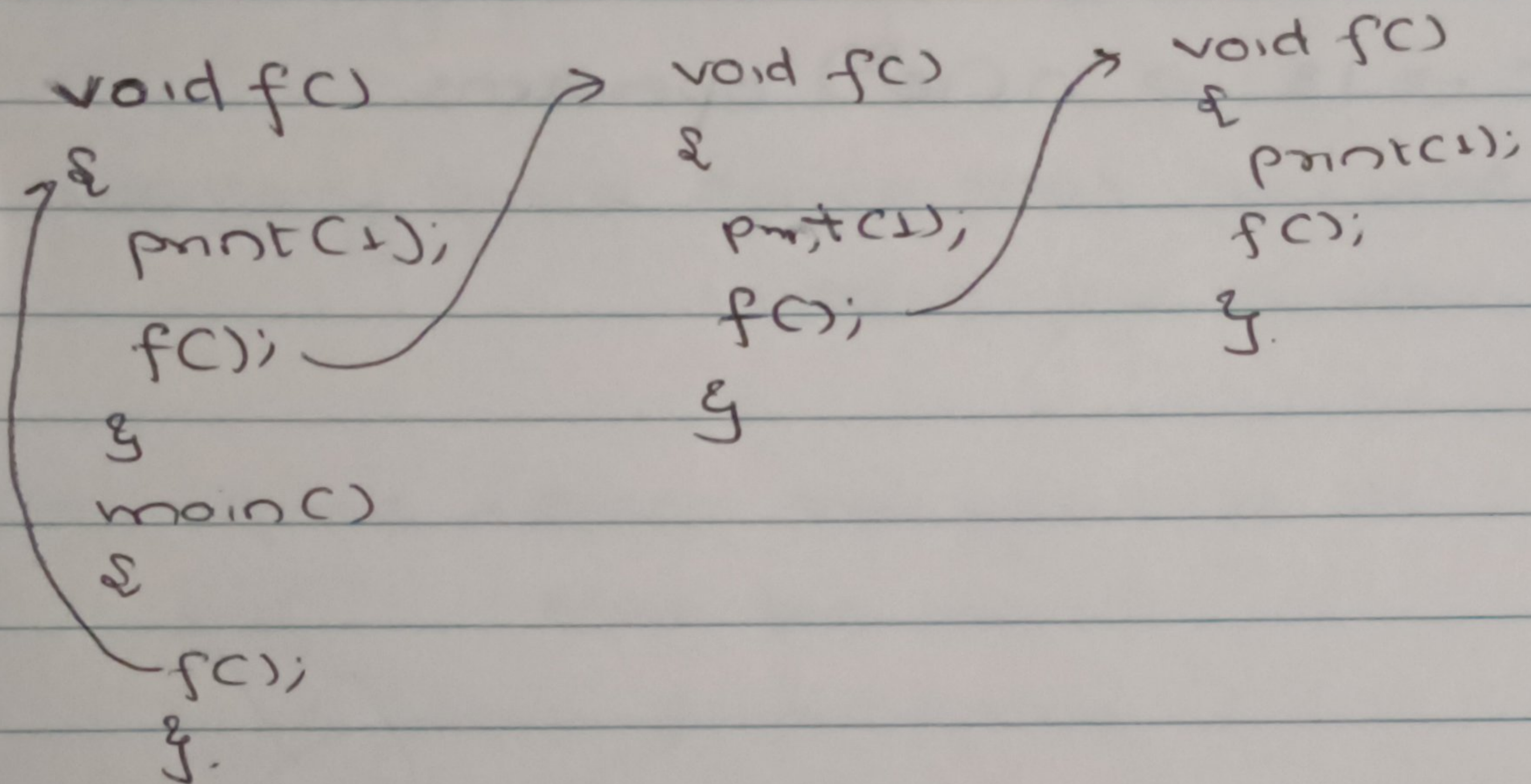


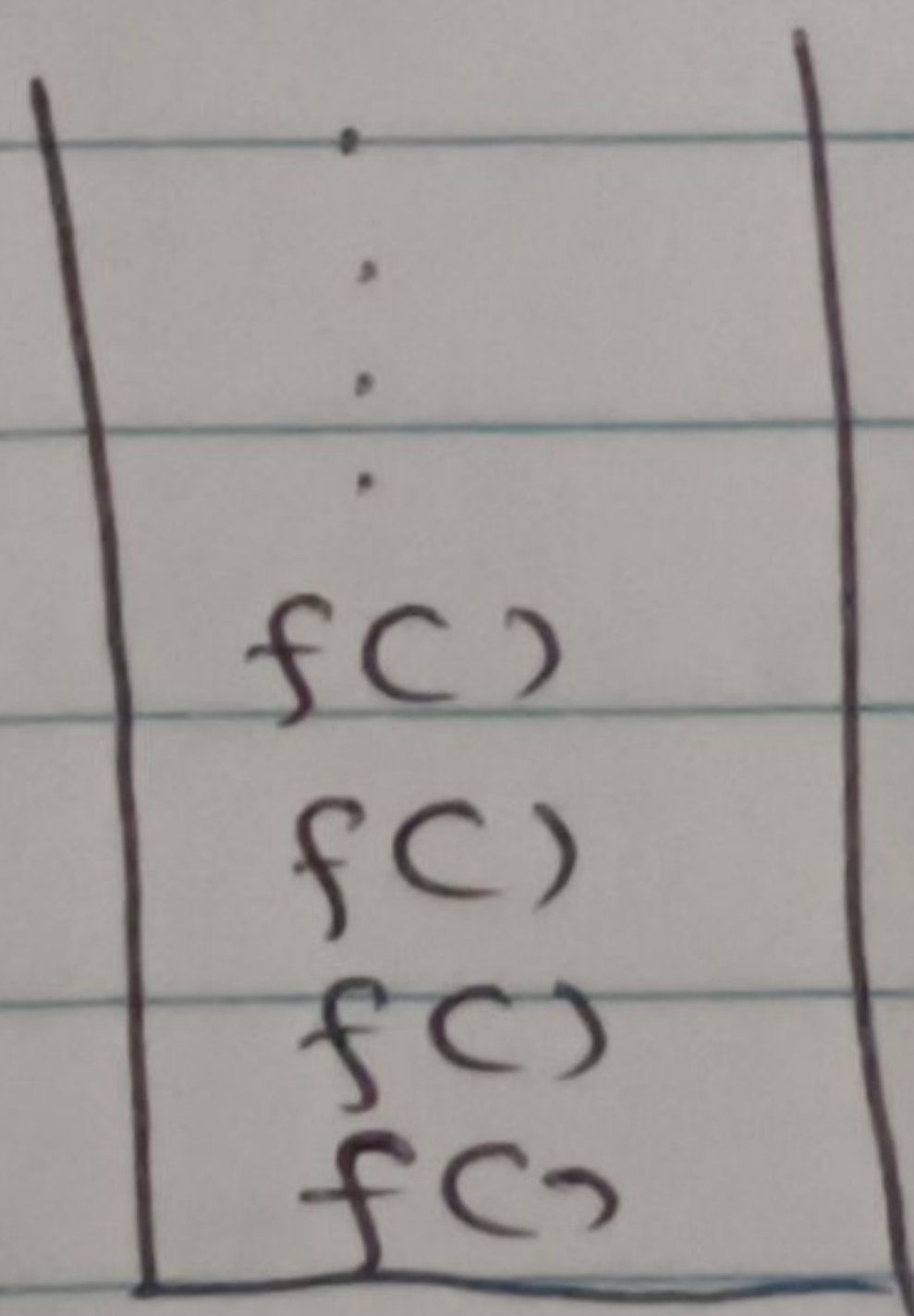
Recursion.

when a function calls itself until a specified condition is met



→ This leads to Stack Overflow.

Stack



Base Condition:

```
cnt = 0
```

```
f(c)
```

```
{
```

```
if (cnt == 3)
```

```
return;
```

```
print(cnt);
```

```
cnt++;
```

```
f(c);
```

```
}
```

```
main()
```

```
{
```

```
f(c);
```

```
}
```

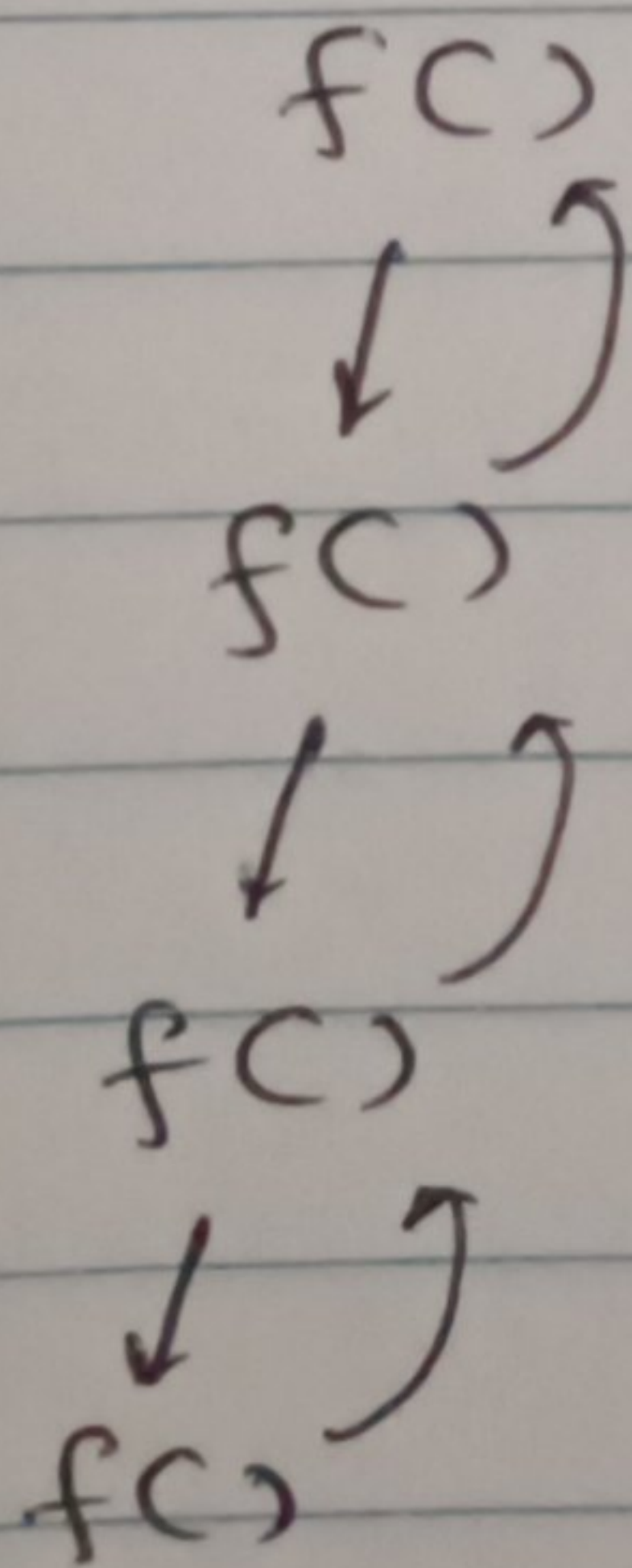
O/p:

0

1

2

Recursion tree:



Topics covered:

→ Recursion

→ Base case

→ Stack overflow / Stack space

→ Recursion tree