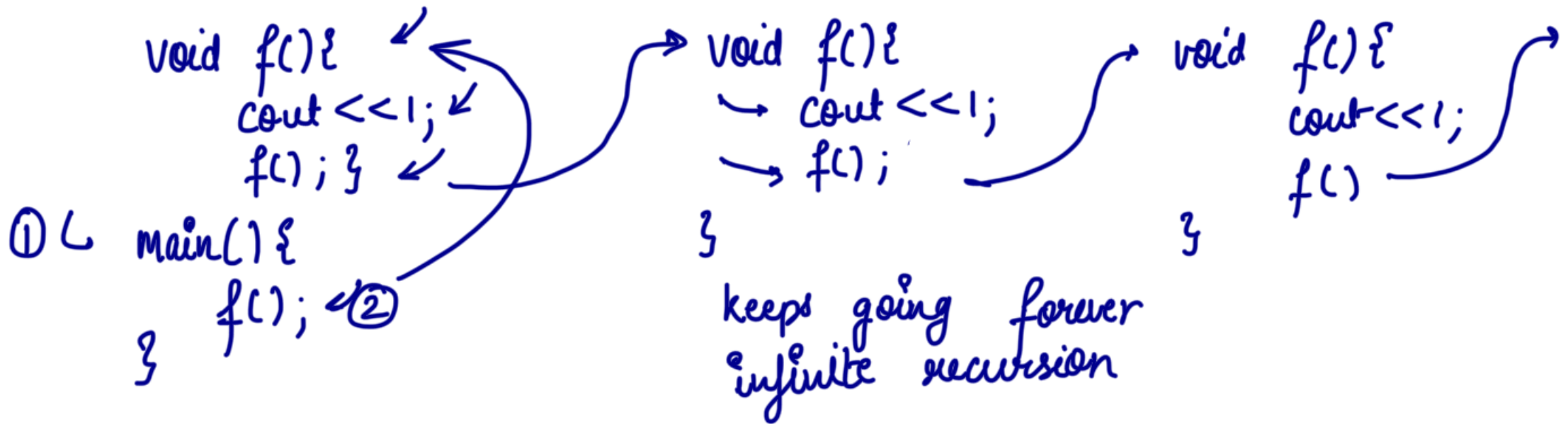
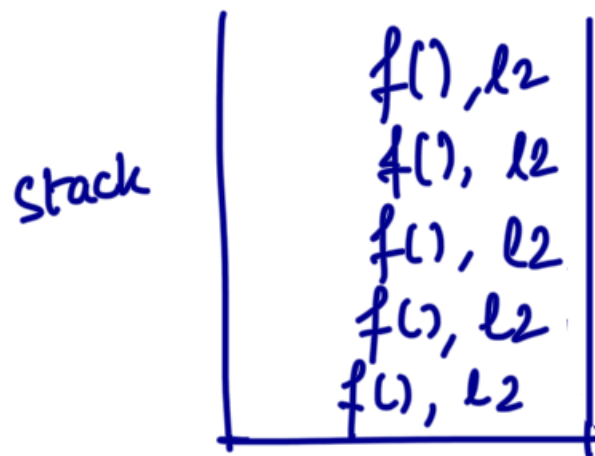


# # Recursion - Theory

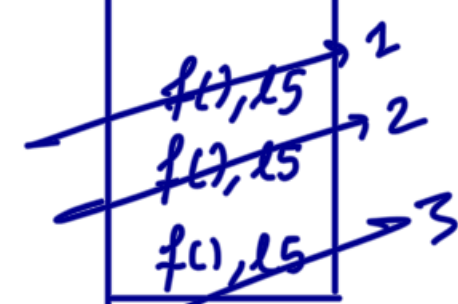
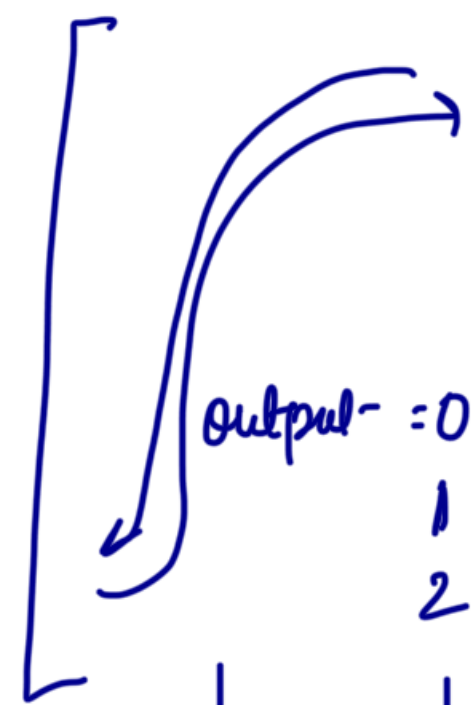
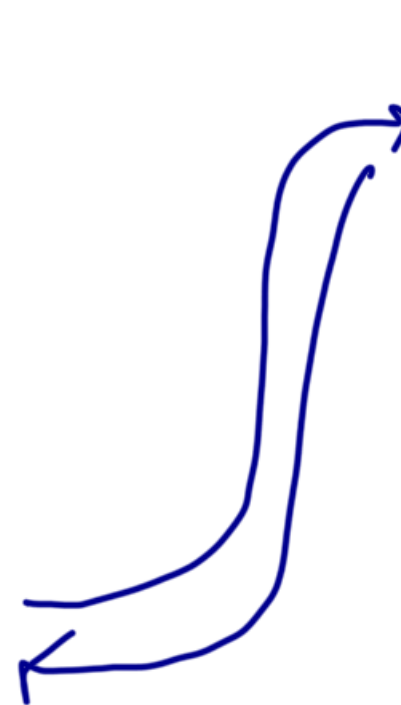
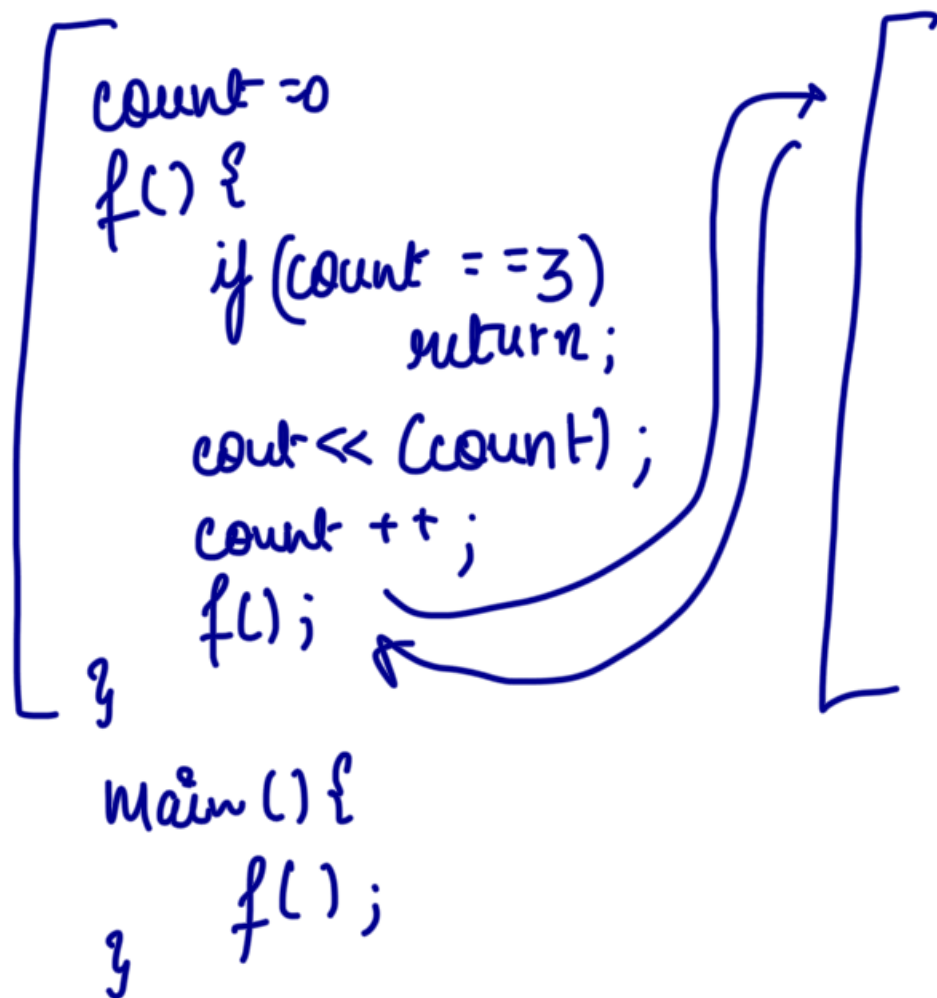
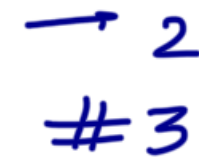
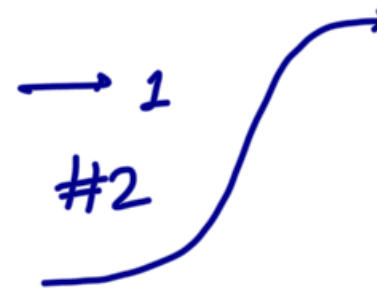
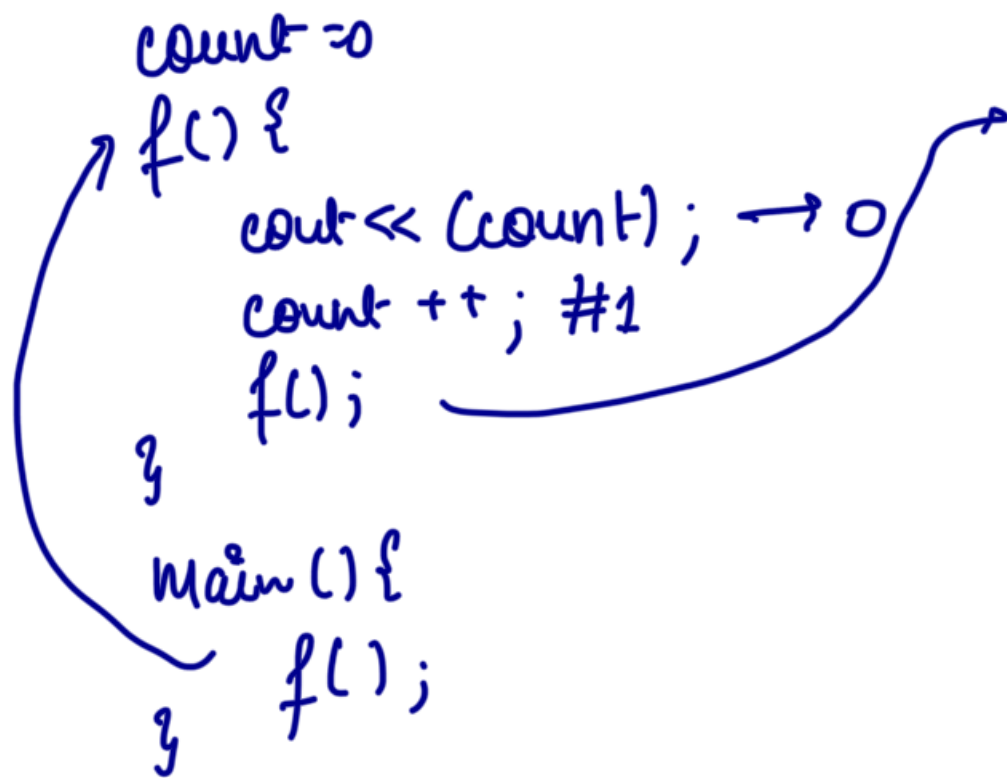
↓  
When a function calls itself until a specified condition is met (base condition)  
↑  
can be single or multiple



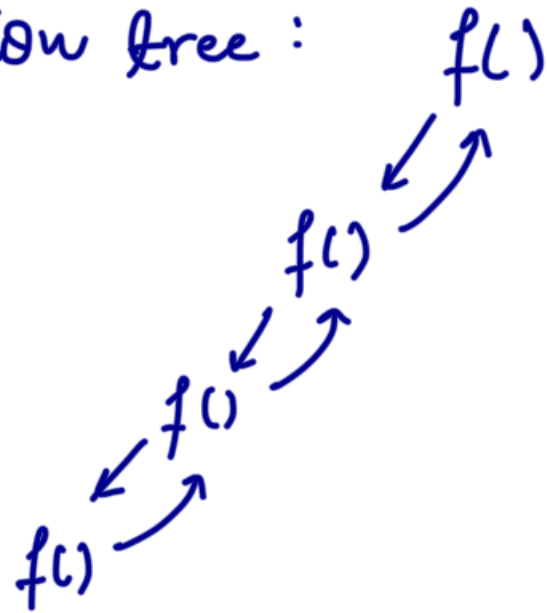
Keeps printing 1 until it runs out of memory.



"stack overflow" - numerous function calls waiting  
segmentation fault  
all these functions  
are not complete  
due to recursion



Recursion tree :



Stack space: stores yet to be completed functions