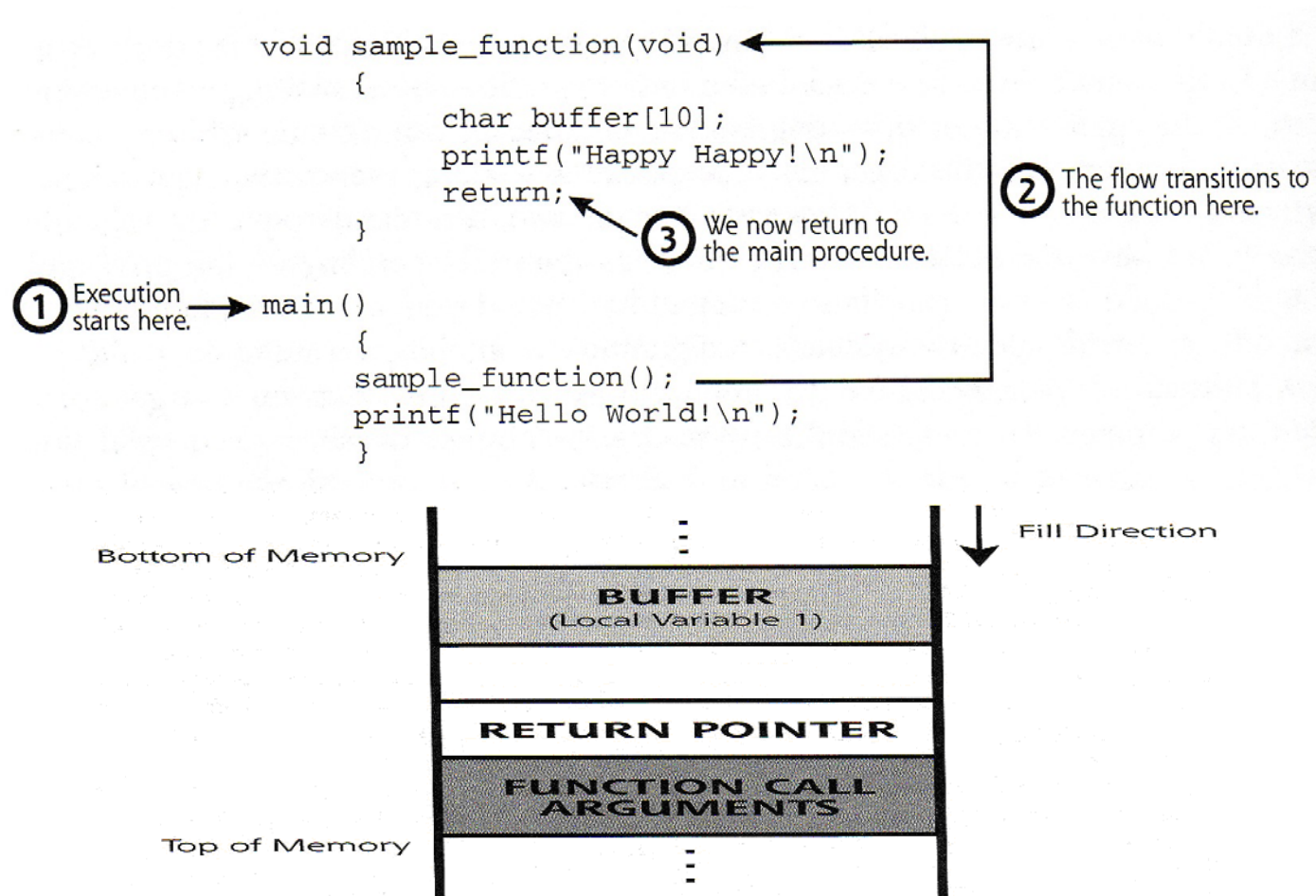


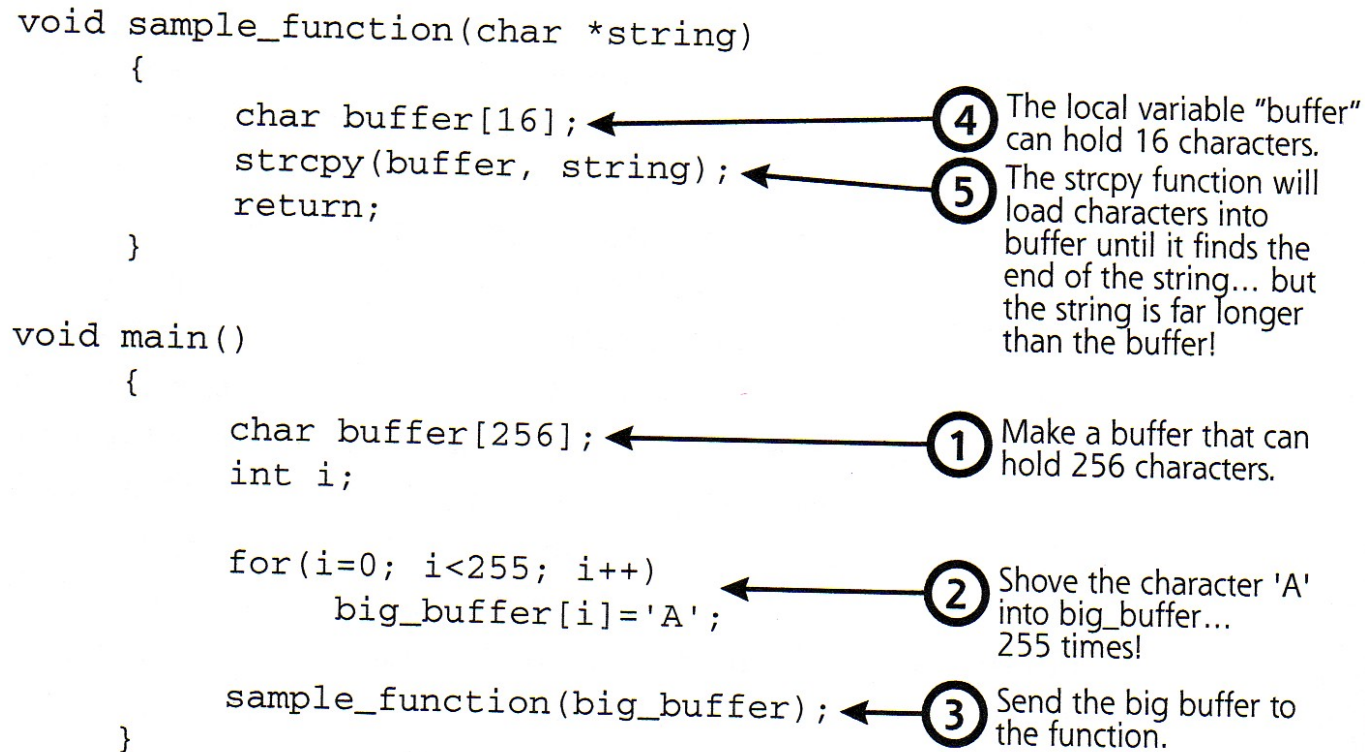
Stack-Based Buffer Overflow Attacks

Stack: A data structure that is used to store information associated with function calls on the computer.

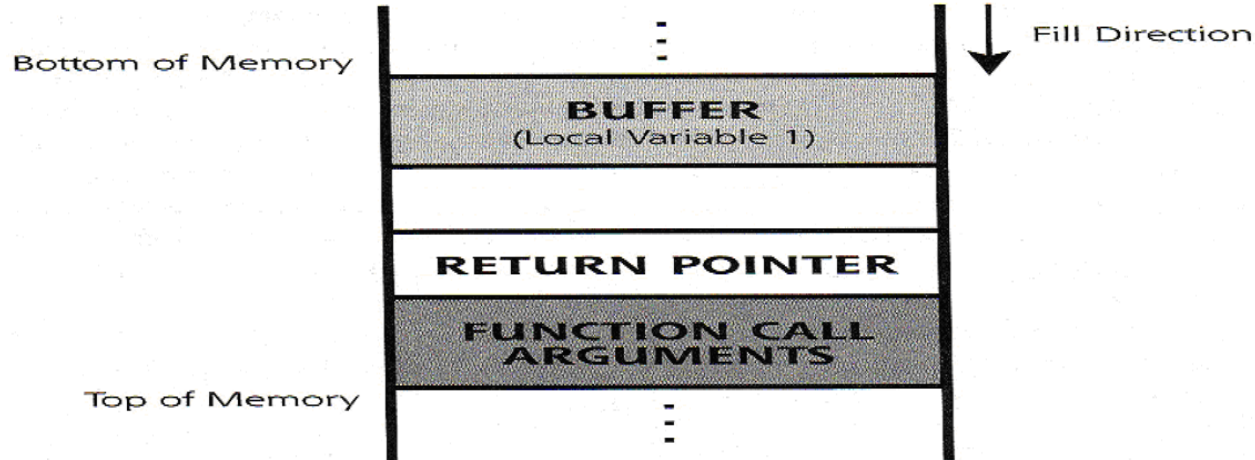


Stack-based Buffer Overflow?

Example: Putting 10 litres of stuff into a bag that will only hold 5 litter.



- Strcpy doesn't check the the size of string
- System allow strcpy to write far beyond where it is supposed to.



What happens to the stack when we do this?

It gets messed up.

- When the function finished executed the function, the return pointer is popped off. The address of next instruction will be "AAAA.....".
- Most likely, this is a bogus memory location, and the program will crash.