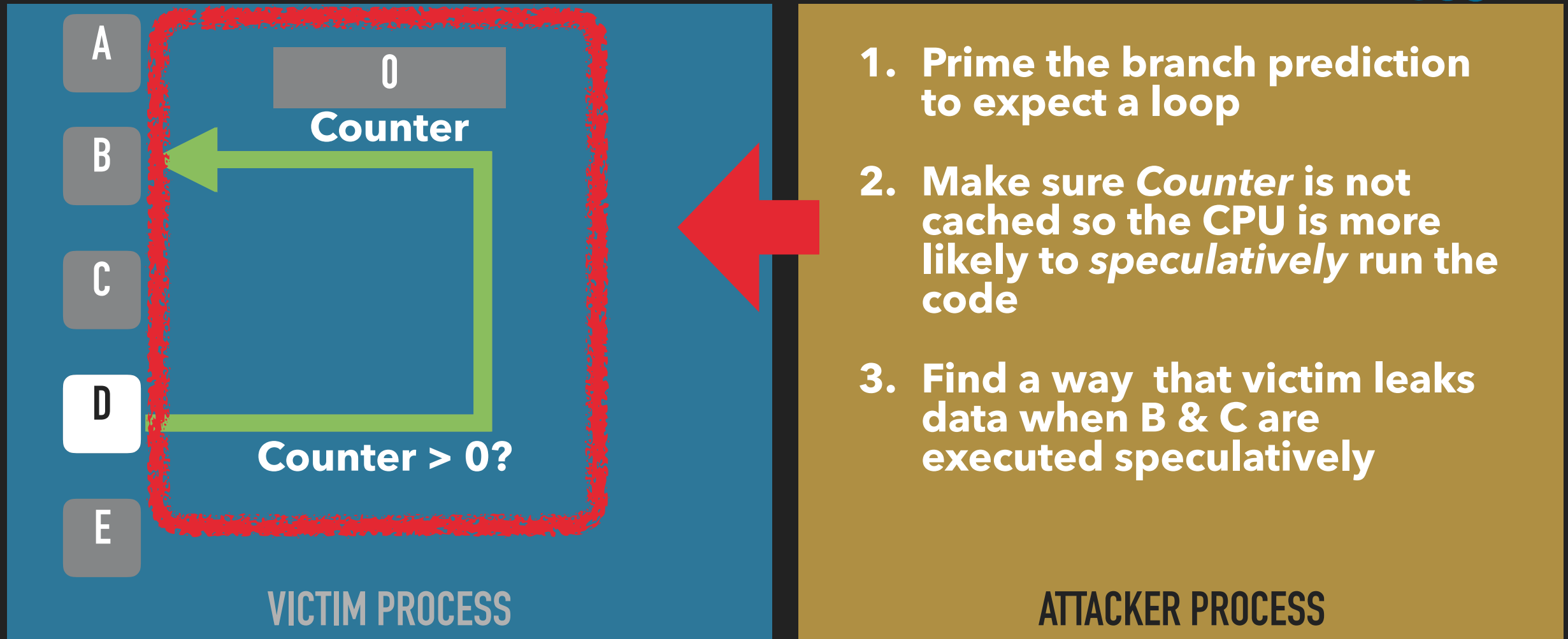
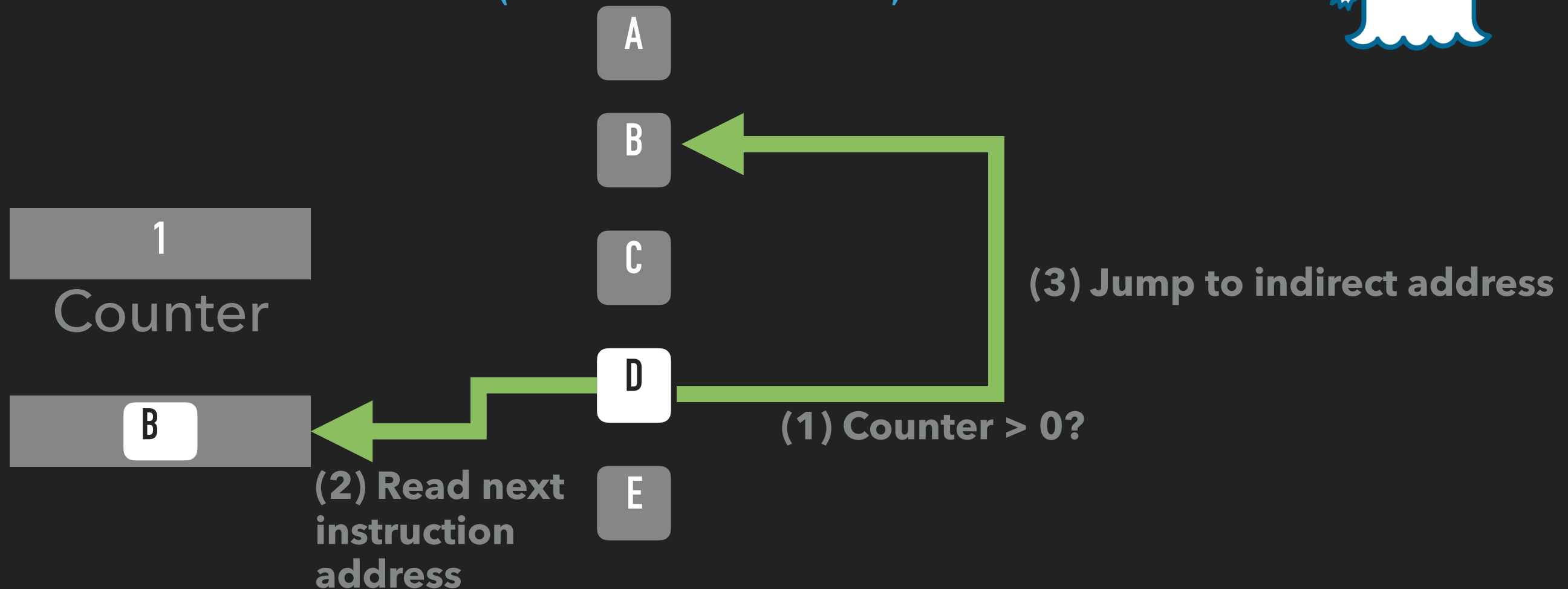


SPECTRE: SPECULATIVE EXECUTION



Attacker can influence the CPU's branch prediction of victim.
Making the victim *speculatively* execute "wrong" code.
E.g. loop even when Counter is == 0.

SPECTRE: VARIANT 2 (CVE-2017-5715)



- ▶ The conditional jump (branch) **D** now is an *indirect jump*.
- ▶ Indirect jumps use addresses stored "somewhere else".
- ▶ This can also be used to *speculatively* execute any code found in the target process (kernel).