



MELTDOWN & SPECTRE FOR ARMED PEOPLE

SPECTRE: SPECTACULAR EXERCUTION

3

8

A

B



c

D

E



A B ... E

Instructions

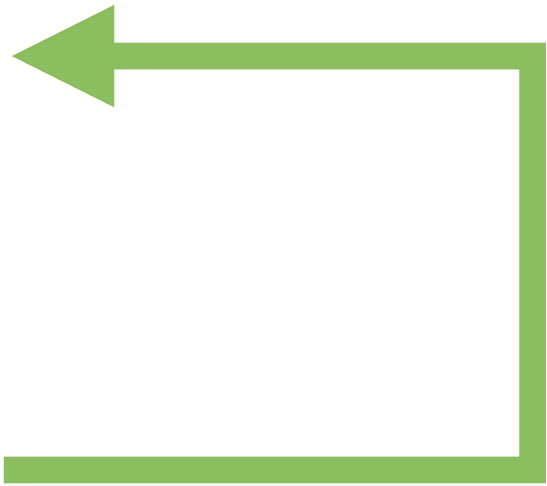
Instructions

A

Currently active instruction



conditional branch



A

B

c

D

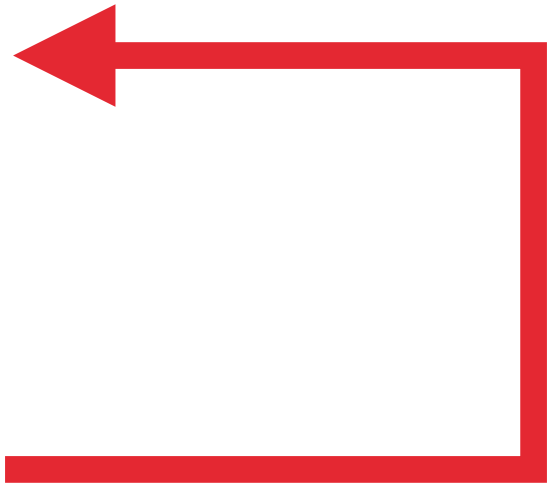
E

COUNTER

Simple variable used in branch

3

counter



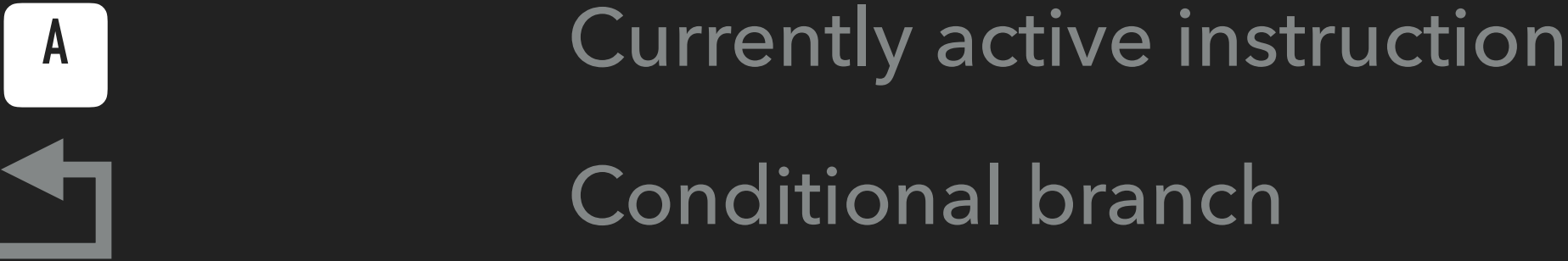
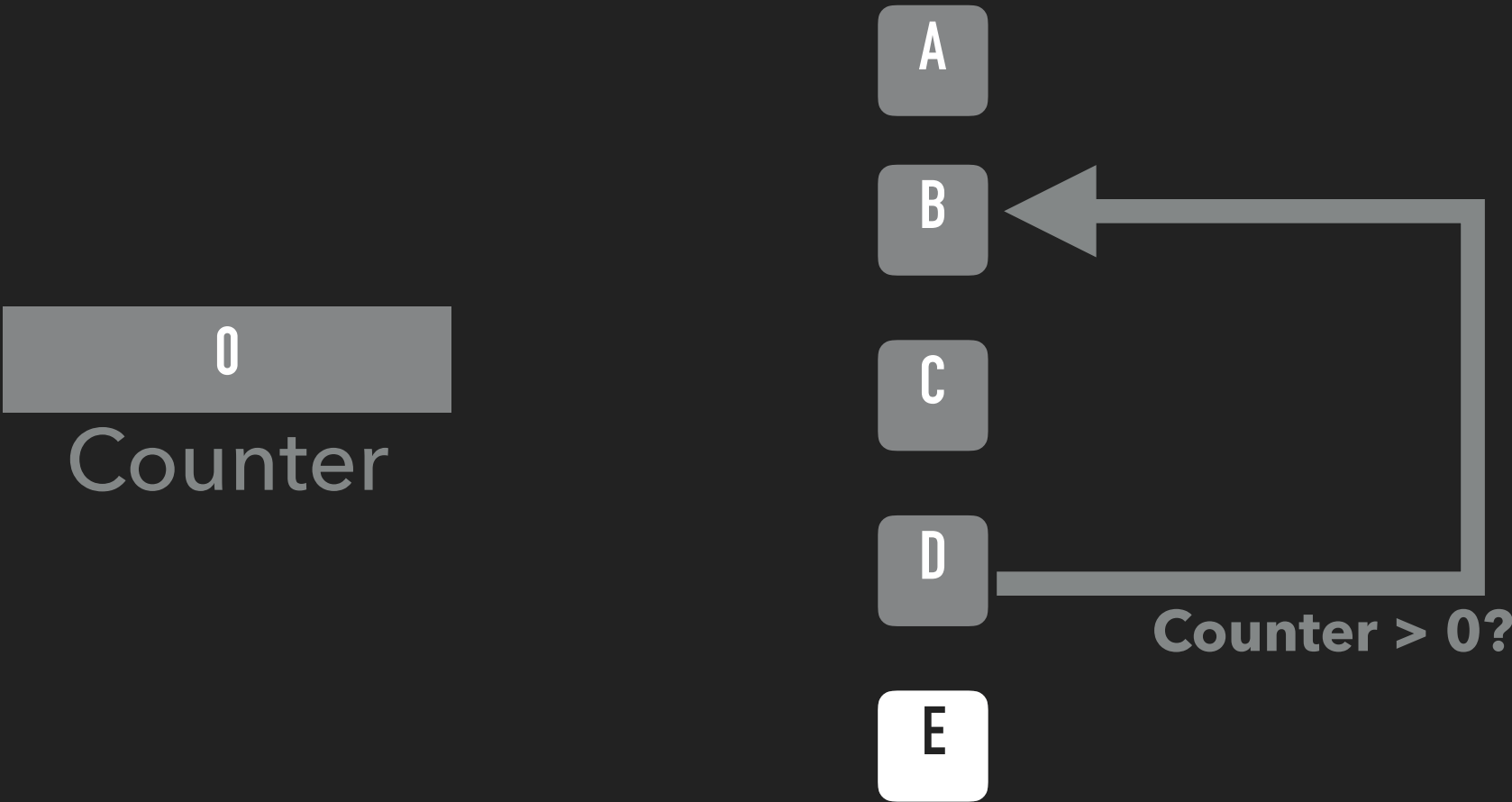
2

1

0

counter=0?

SPECTRE: SPECULATIVE EXECUTION



Some variable used in branch

Instructions

Currently active instruction

Conditional branch

SPECTRE: SPECULATIVE EXECUTION

