

"IT'S A 1"



110011010

010111010

111100100

000101101

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Collector

110011010

010111010

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Spy



MELTDOWN: THE CHANNEL (IDEA)

3

0



1. **spy** will read the **secret**

2. Depending on the **value**, **Spy** will mark a grey block

3. CPlu detects **Spys** access validation and terminates **Spys**

4. Collector now looks for *Spys* mark in all grey blocks













"IT'S A 2"

R
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"IT'S A 3"

"IT'S A 1"

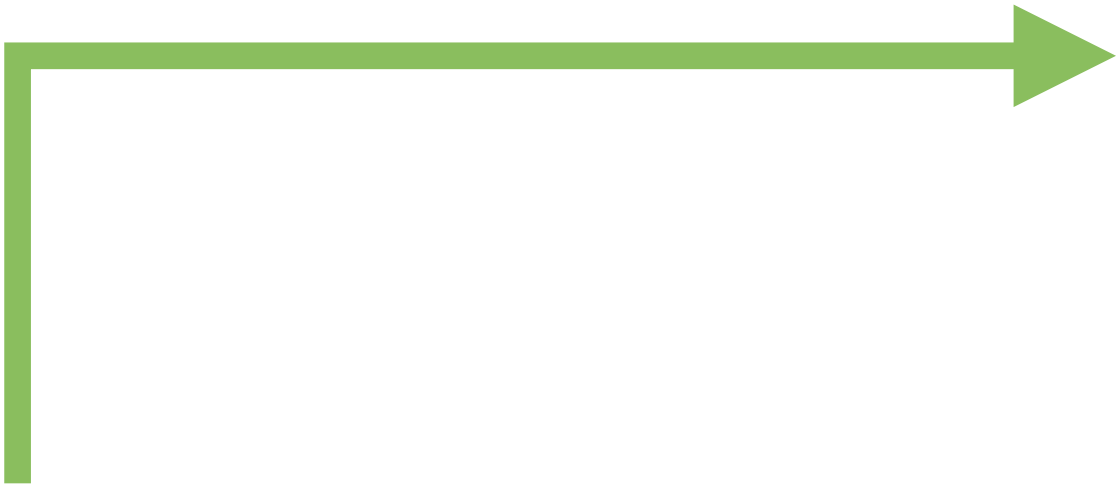
SECRET ("3")

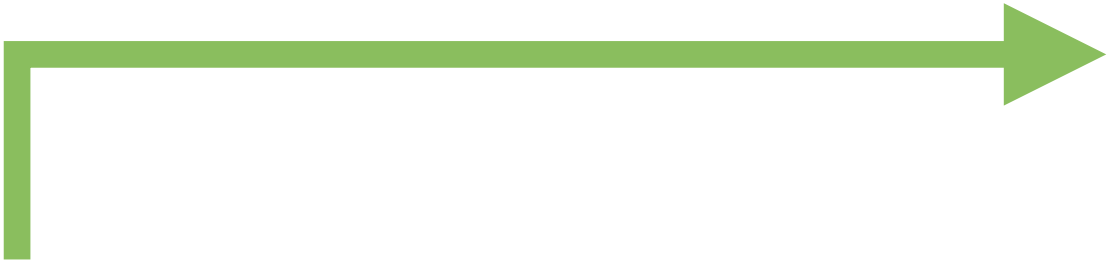




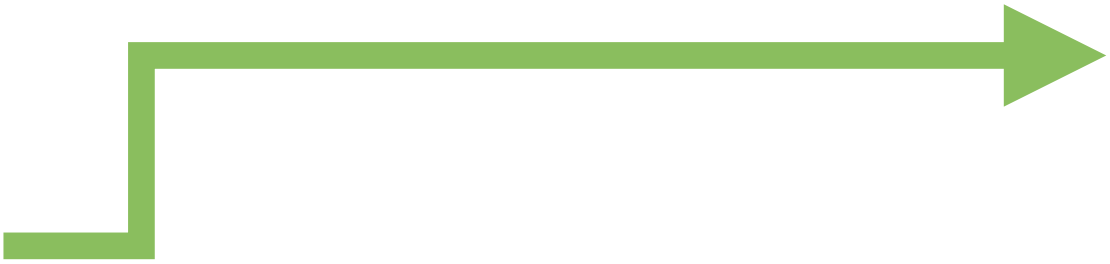








"IT'S A 2"







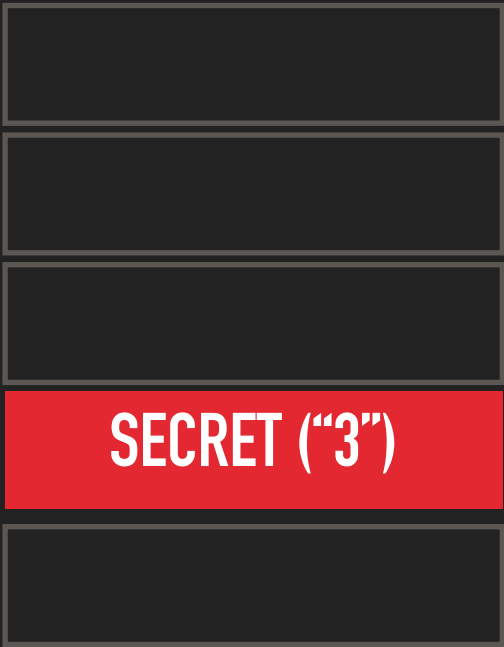
MELTDOWN: THE ATTACK

110011010
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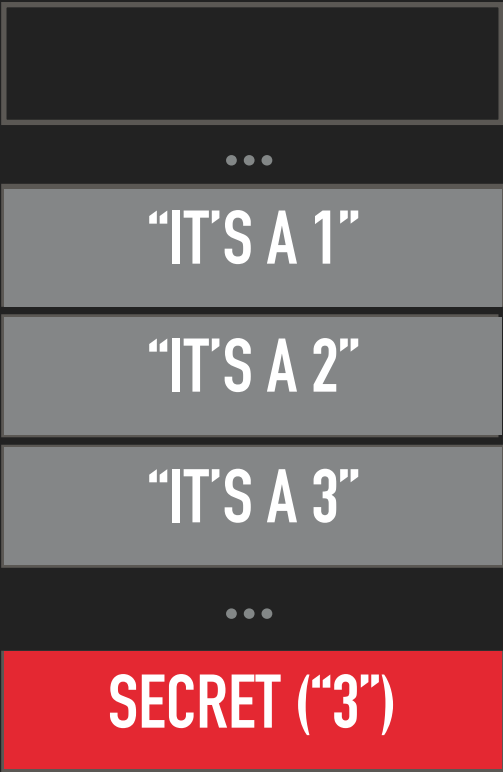
Spy

110011010
010111010
111100100
000101101
100110010

Collector



Cache

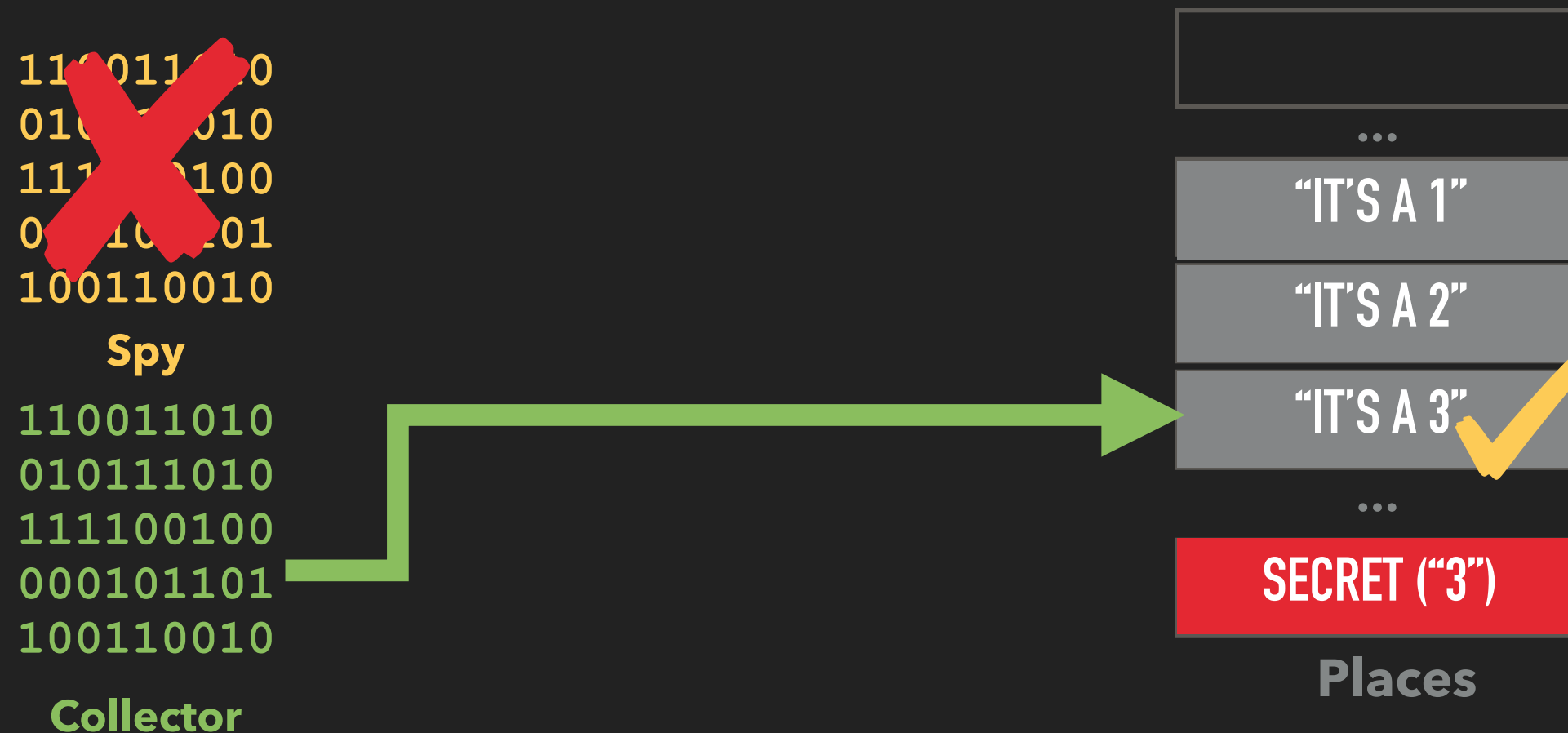






RAM





MELTDOWN: THE SIDECCHANNEL (IDEA)



-  **Spy** will read the **secret**
-  Depending on the **value**, **Spy** will mark a grey block
-  CPU detects **Spys** access validation and terminates **Spy**
-  **Collector** now looks for **Spys** mark in all grey blocks