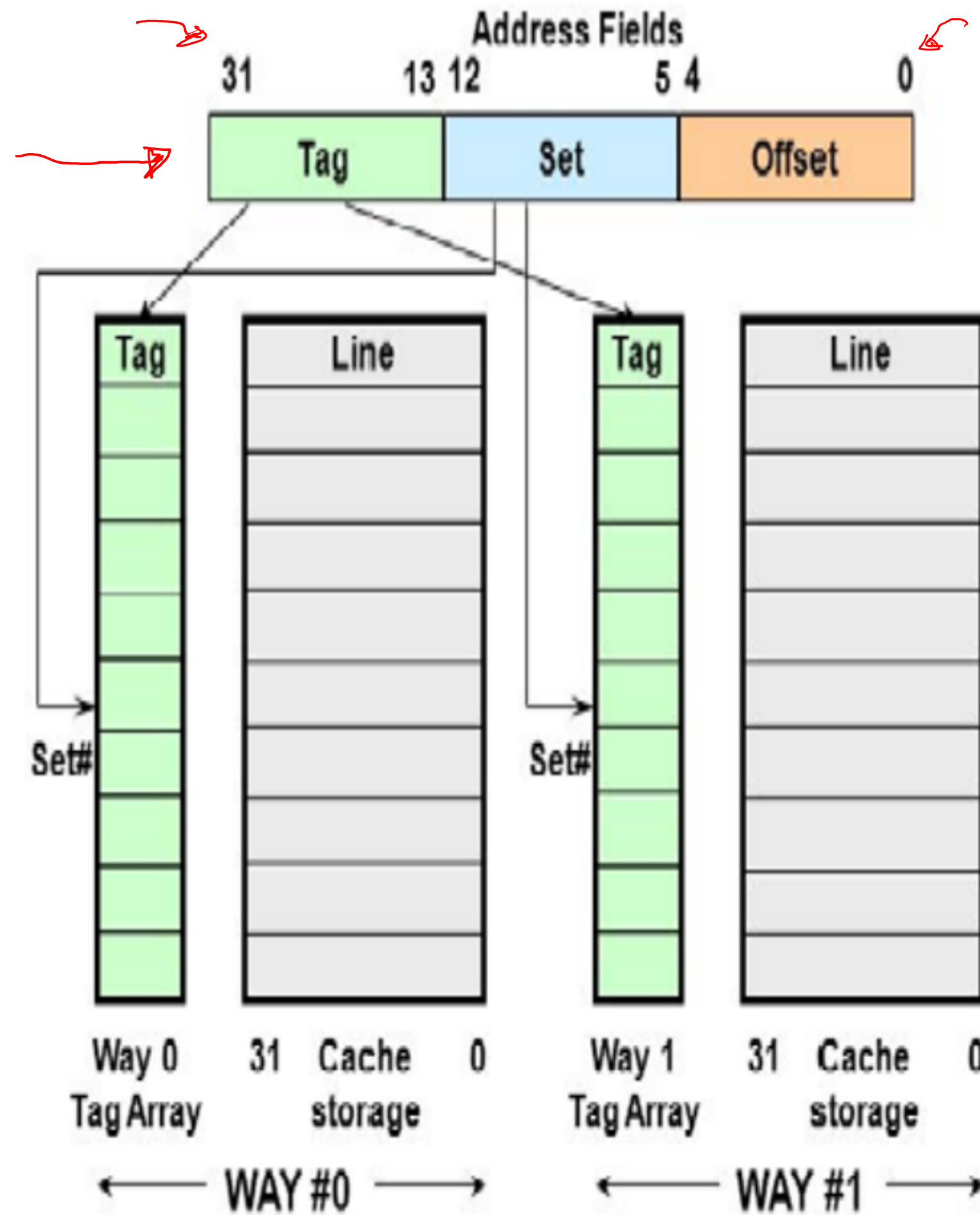


inst



Example:

Line Size: 32 bytes
 Cache Size 16KB
 # of lines 512 lines
 #sets 256
 Offset bits 5 bits
 Set bits 8 bits
 Tag bits 19 bits

Address 0x12345678

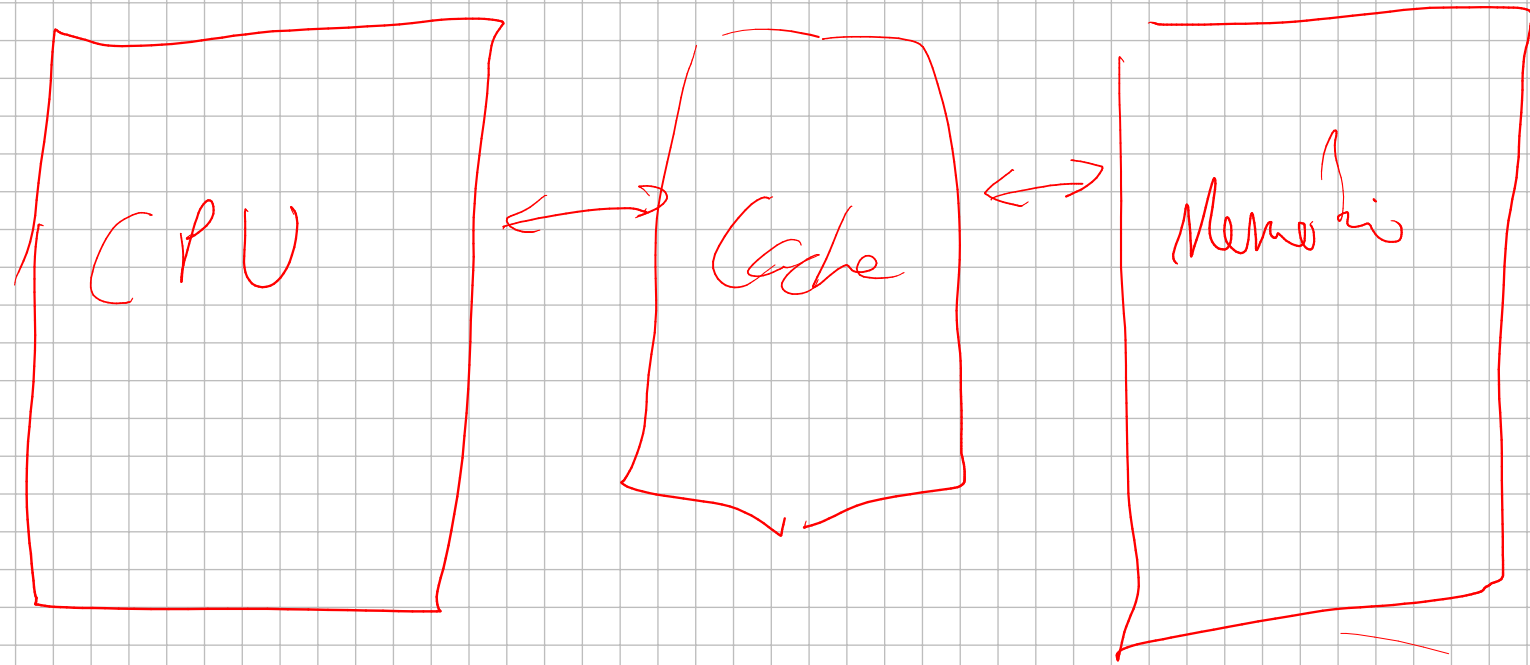
0001 0010 0011 0100

0101 0110 0111 1000

Offset: 1 1000 = 0x18 = 24

Set: 1011 0011 = 0x0B3 = 179

Tag: 000 1001 0001 1010 0010 =
0x091A2



deque<int> cache[4]

1. $1024 / 4 / 32$

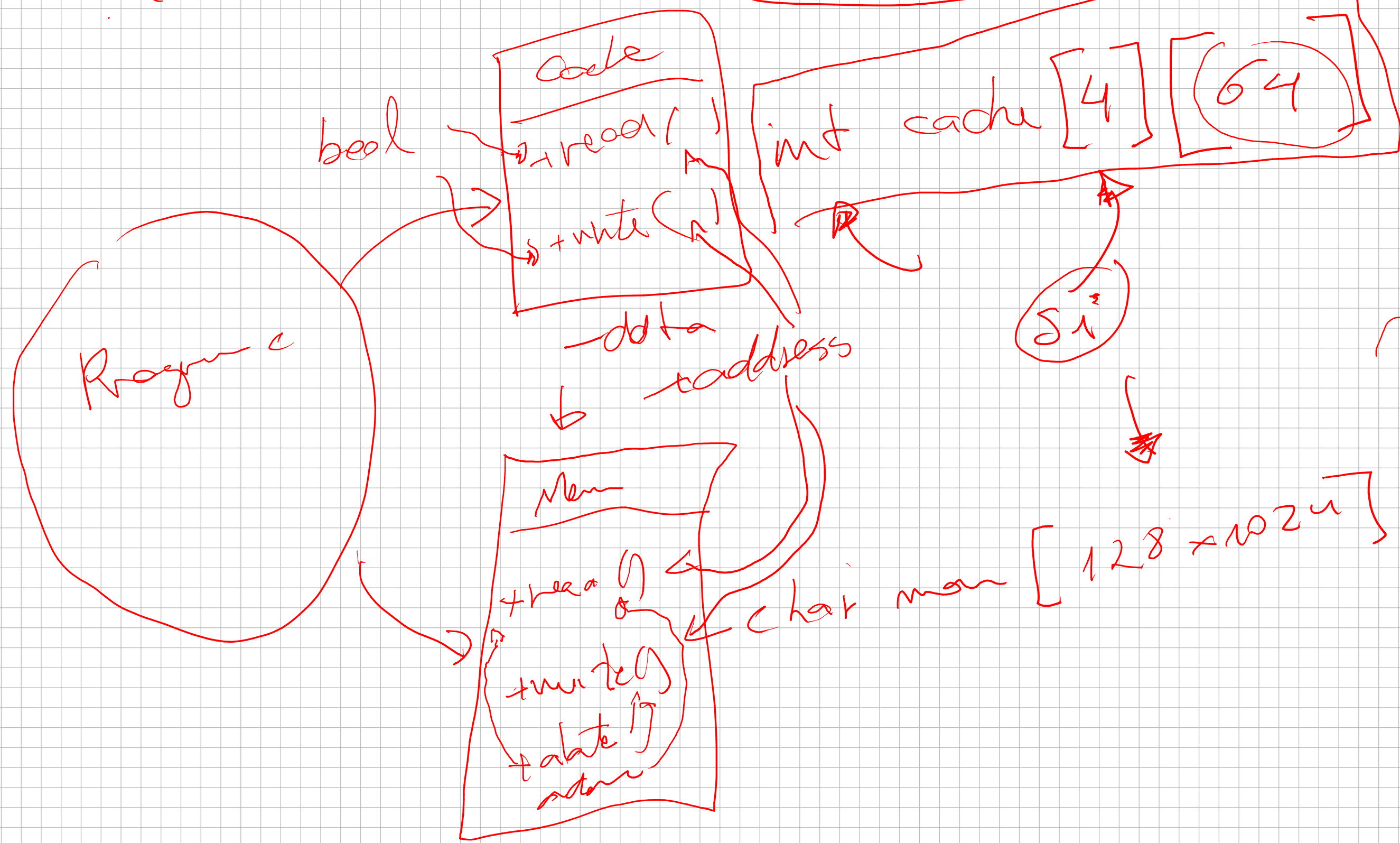
2. 1024

8 K

8. 1024 K

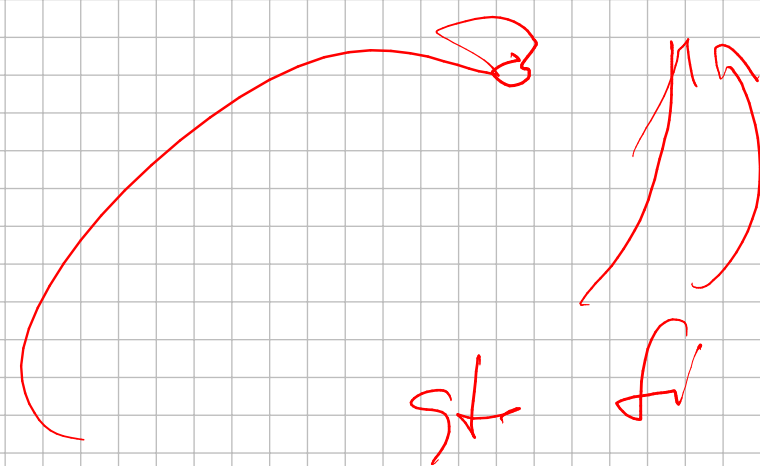
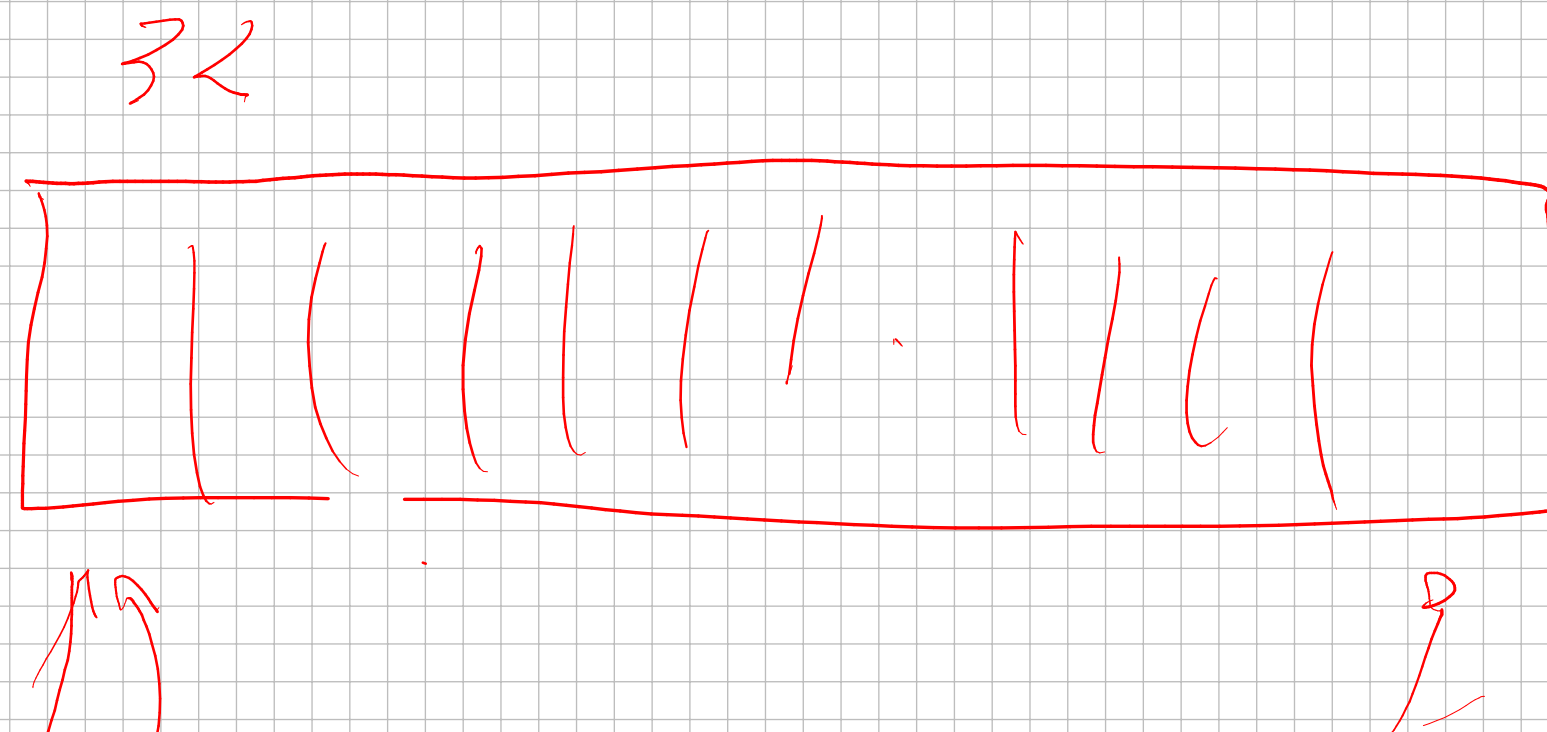
→ 4 32

← 128 K



512

FIFO



push()

pop()

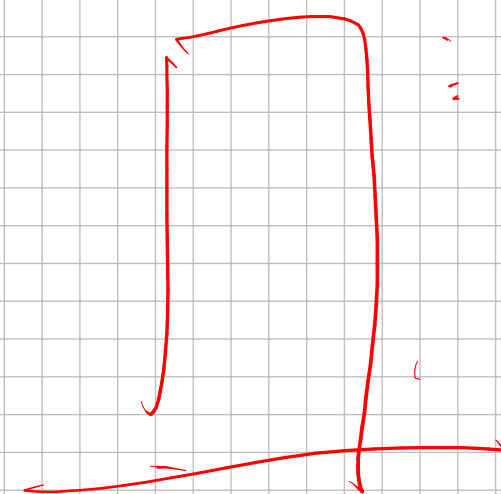
ring buffer $\Leftarrow C$

deque

C

gcc

g++

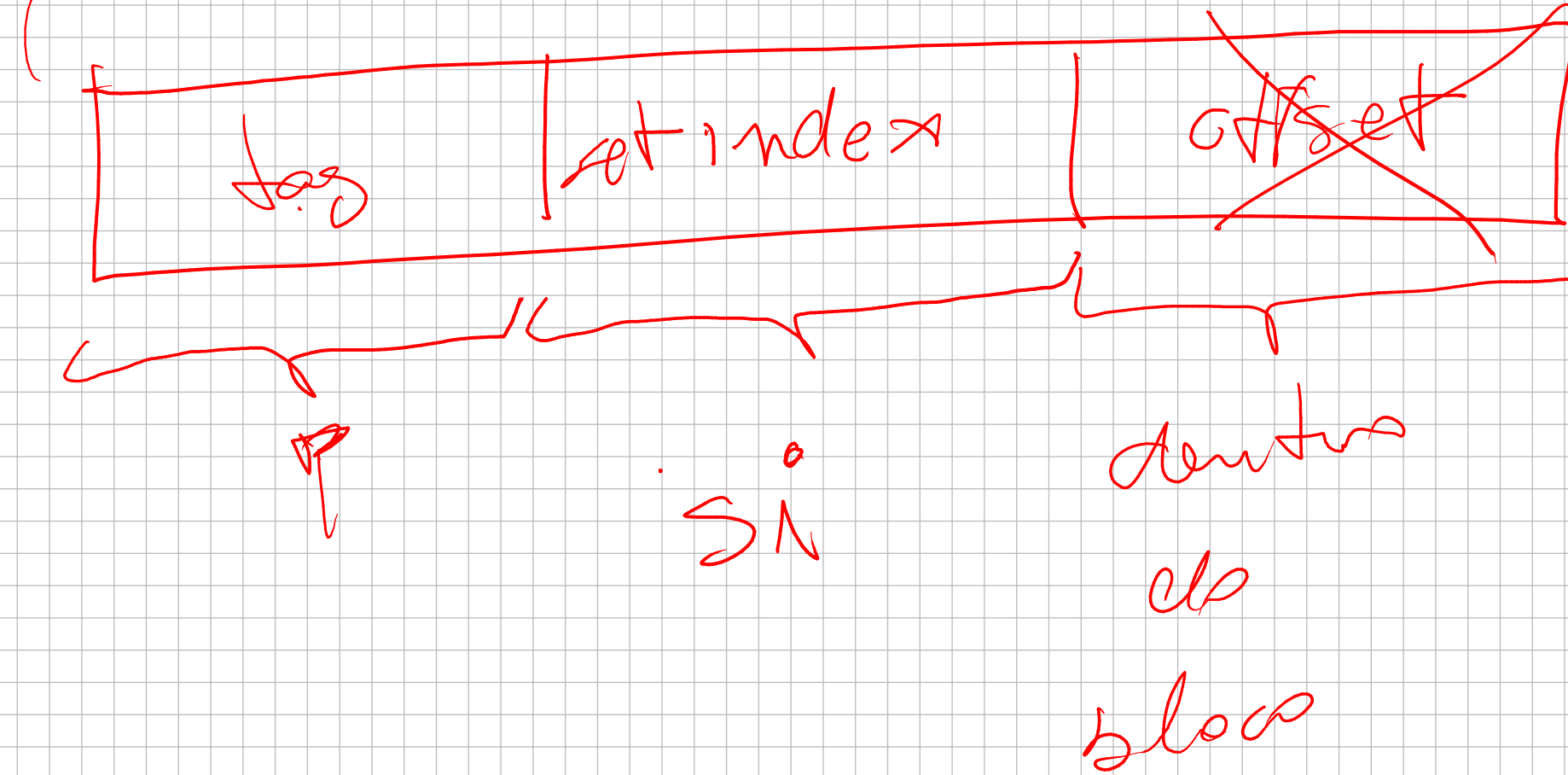


Fifo

Associative

2 - 4 - Completa

$$\begin{cases} N = (addr \gg 2) \cdot 4 \\ tag = (addr \gg 2) / 4 \end{cases}$$



teste

fifo_add(int *a[64])

fifo_add(tag, cache[Si])