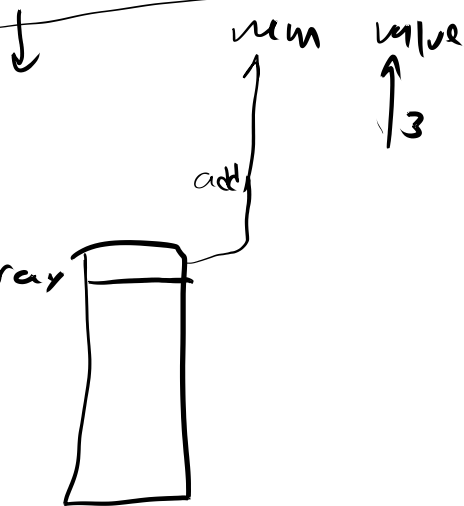


*c = 3;



mov \$3, (%rax)



Cudo

Virtual address



add 0x123456

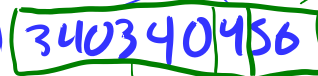
vm cache

Page table

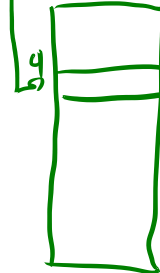
kernel segments

340340

Physical address



hardware



set

ray

block



write

value read

Cache

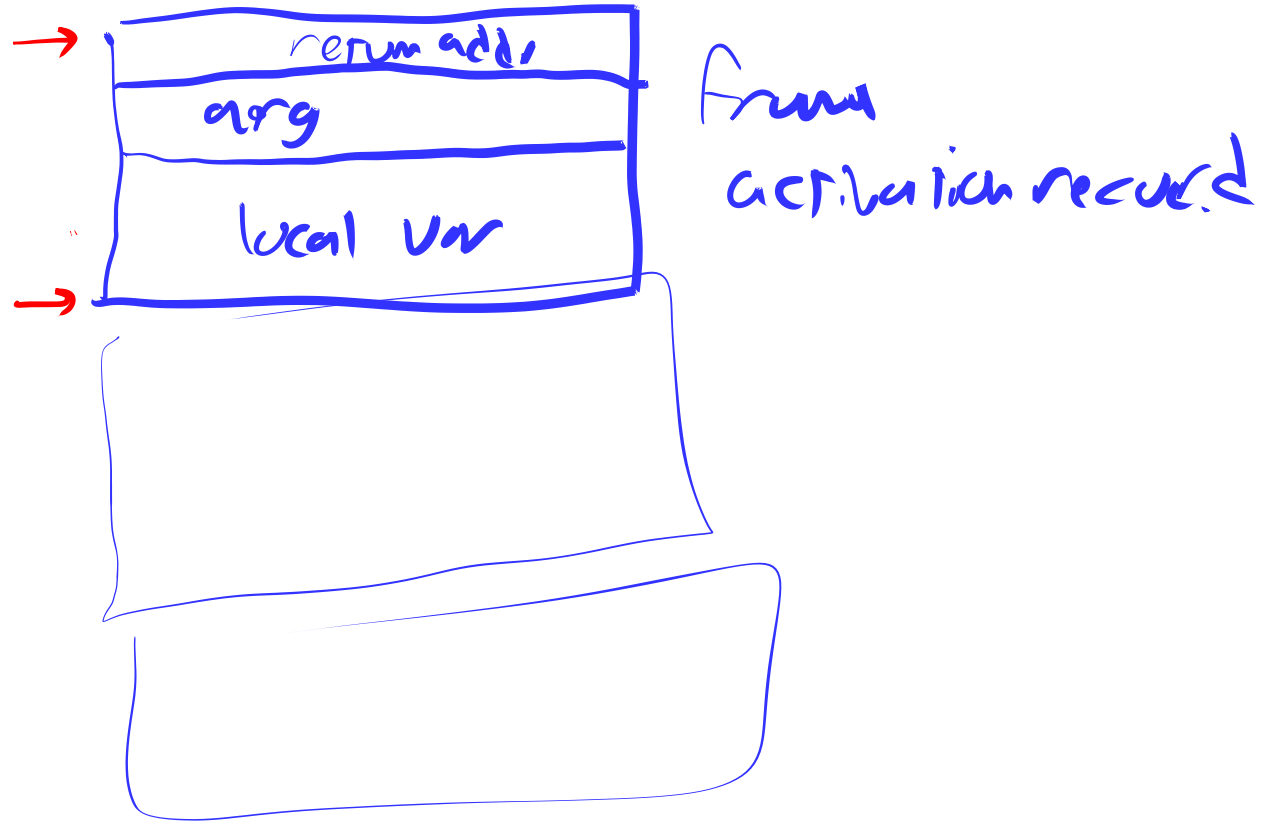
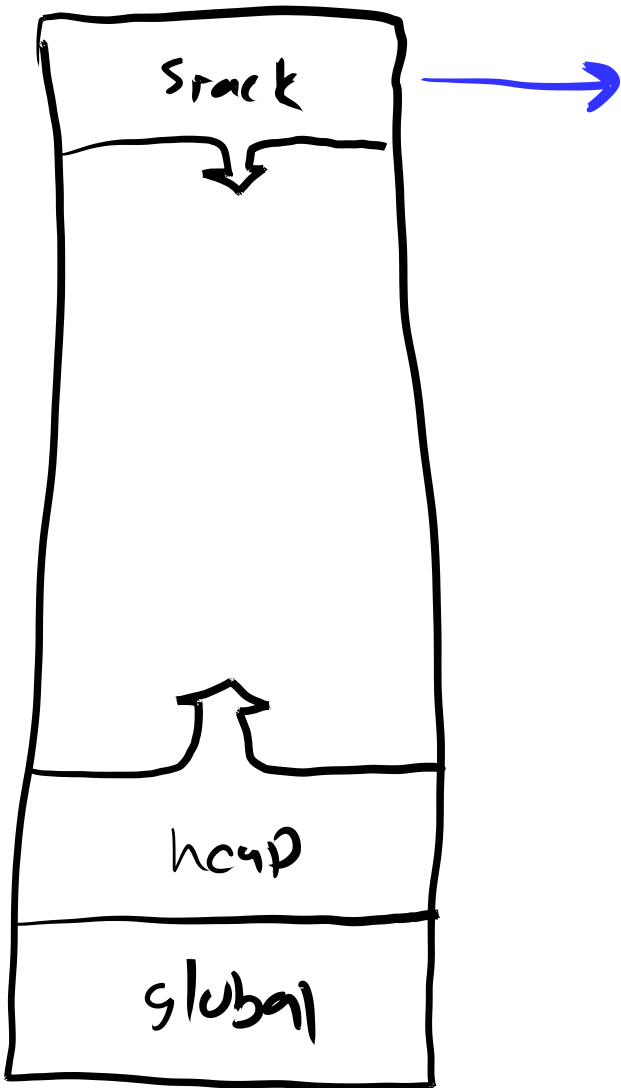
ray, index, offset = address

set = cache-ana (index)

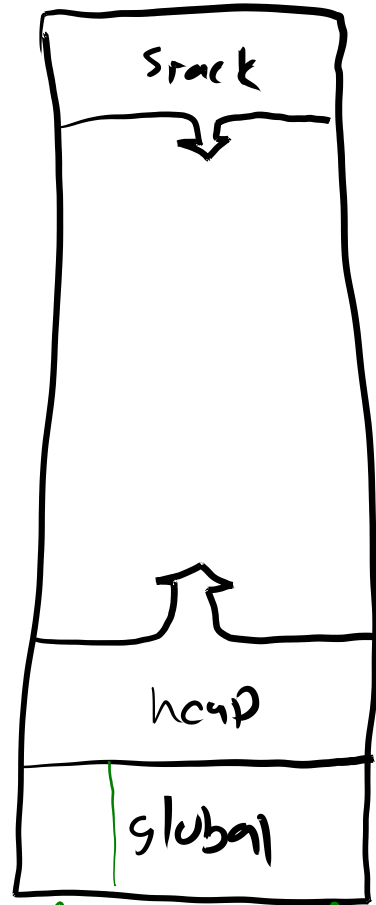
for each entry in set:

if entry ==

Memory in Code



Memory in Code



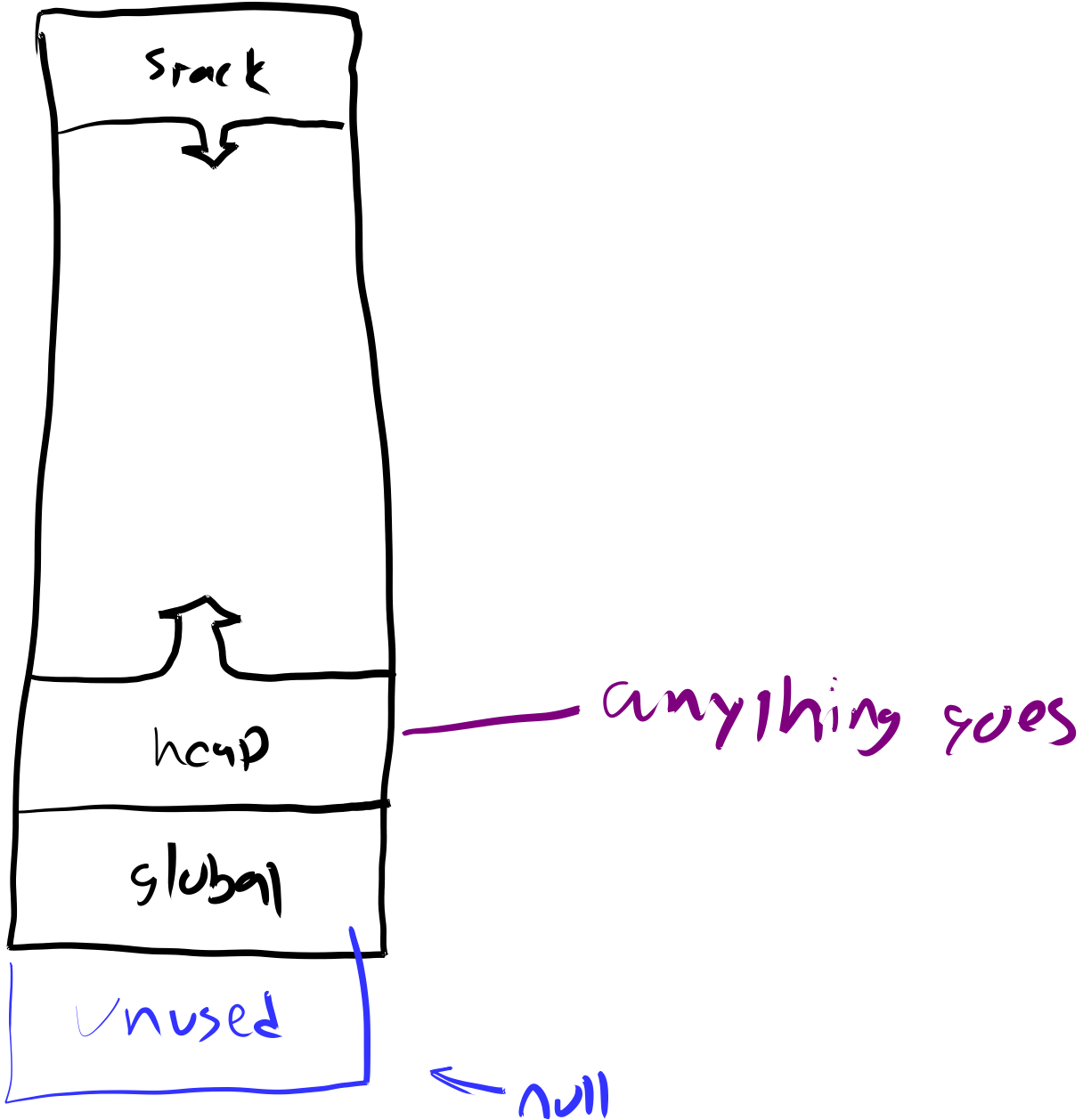
↑
read only

↑
read/write

declared outside any function or a big literal

→ fixed size at compile time

Memory in Code

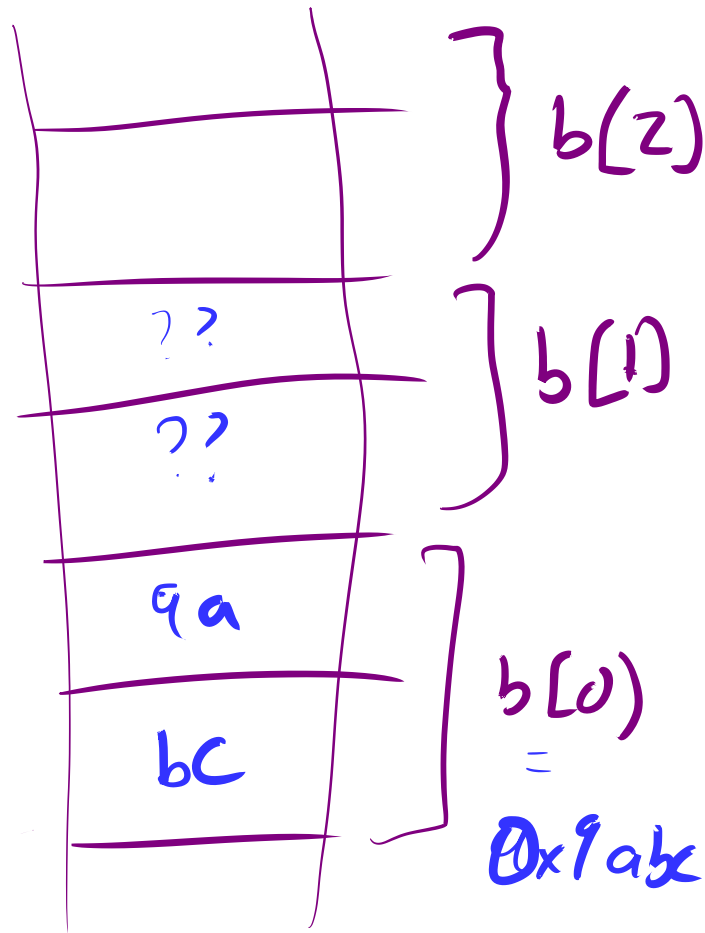


sbrk
malloc

free

new
delete

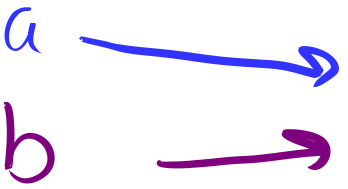
big



a[1]

a[0]

0x????9abc



small