

define

WHOOPS

if (x == 3)

WHOOPS

}

}

macro

#define

PI

3.1415926535

#define

pi

PI

macro

#define

max(x, y)

((x) > (y) ? (y) : (x))

#def.u

max(x, y)

if

;

max(w, 3 + 5 << 1)

→

((w) < (3 + 5 << 1) ? (3 + 5 << 1) : (w))

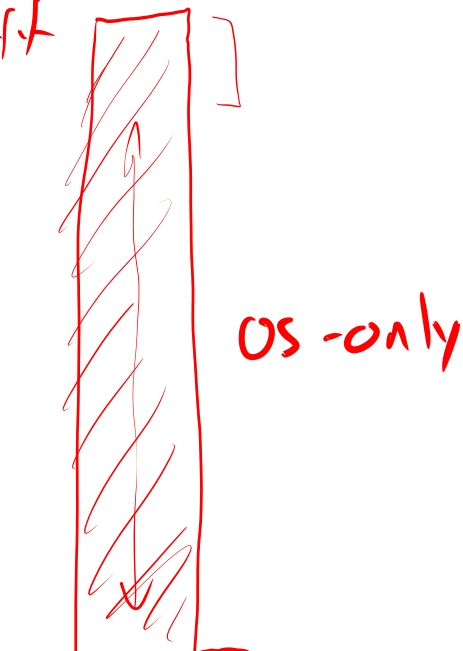
FFFFFFFF

x86-64

64 addresses

48 mem

UNUS
0x00007fff...



code
 globs
 shared libraries
 stack
 heap

libraries

staticly-linked
↳ compile-time

dynamically-linked
↳ runtime

2⁴⁶ B
64 TB

shared
library

↑
heap

global
text



NOT POINTER

null → 0

```
int *array = null
```

```

{
  if ( ... ) {
    array = ...
  }
}

```

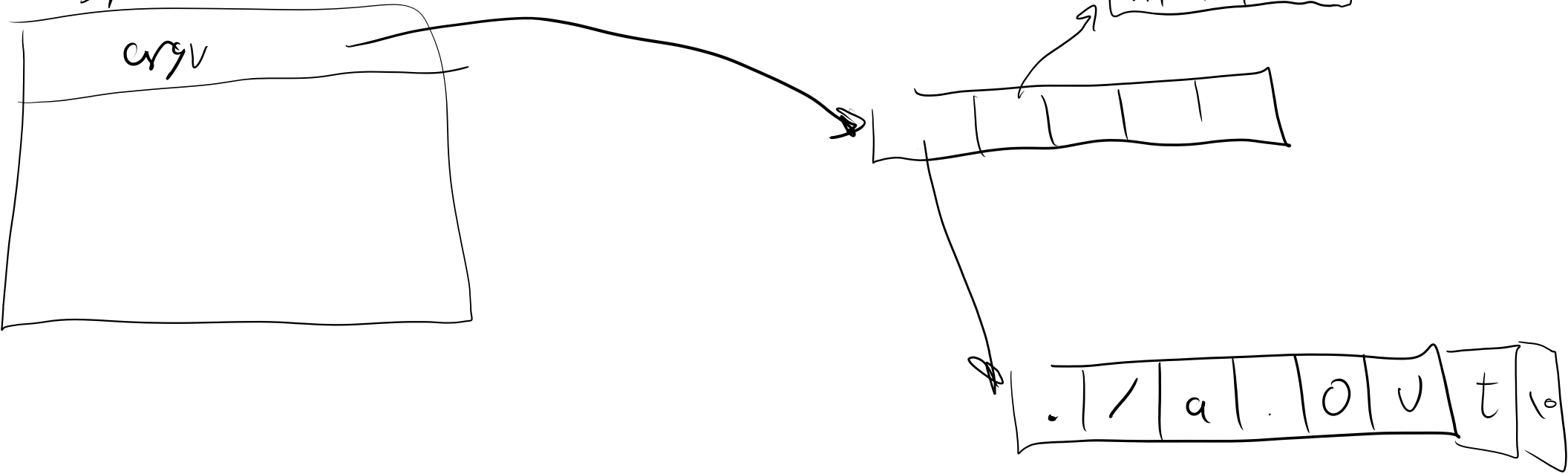
array[452] = 11

Stack G_n

cr9v

h | e | l | l | . | o | v | e

. | / | a | . | o | v | t | e



Heap

`void *x = malloc(num of bytes)`

`free(void *x)`