

CS 208

Fri, 31 March 2023

bash

~~original~~ ^{early} Unix command

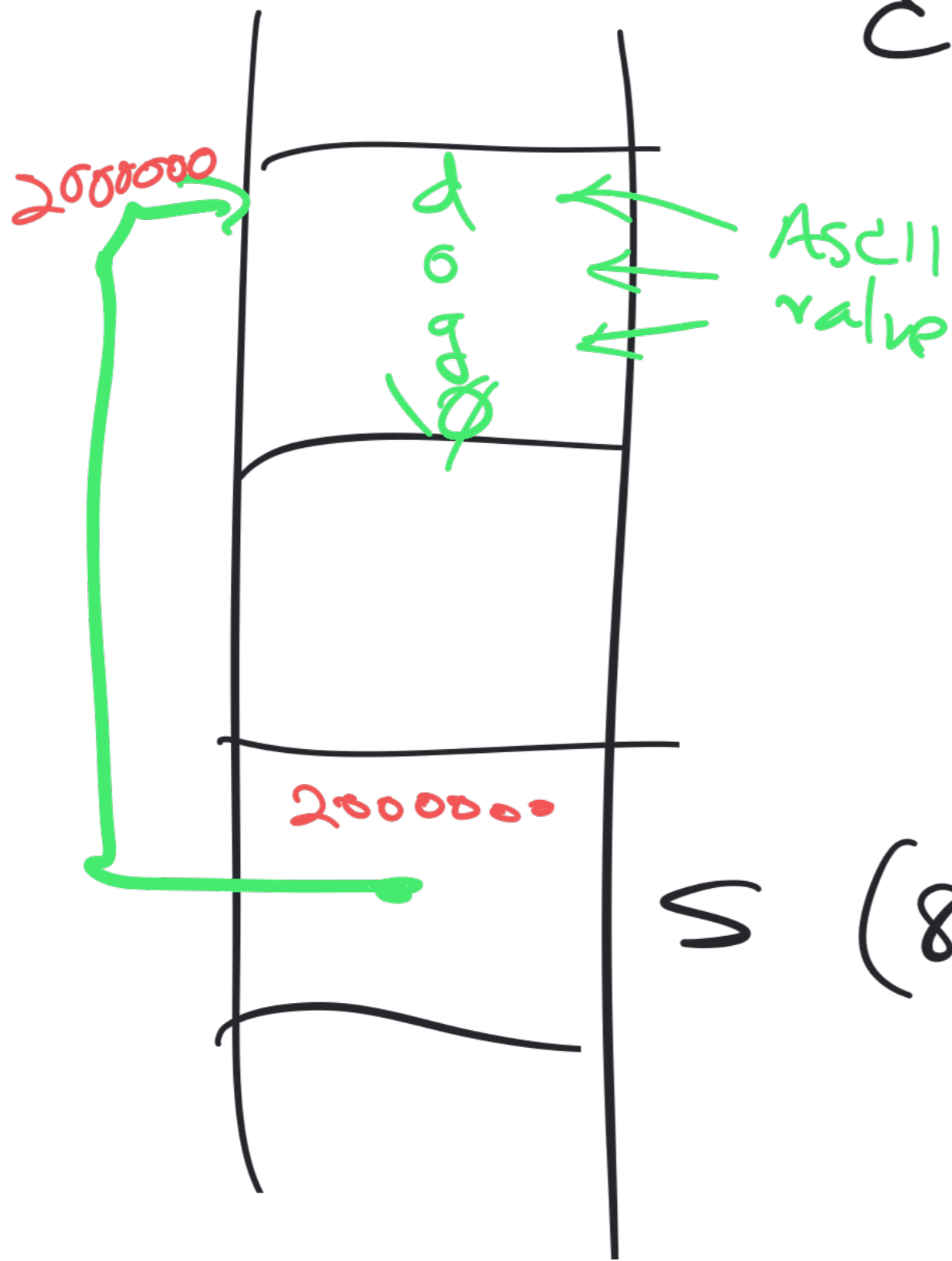
Shell : sh

(" Bourne shell ")

later : " Bourne Again Shell "

bash

char *s = "dog";

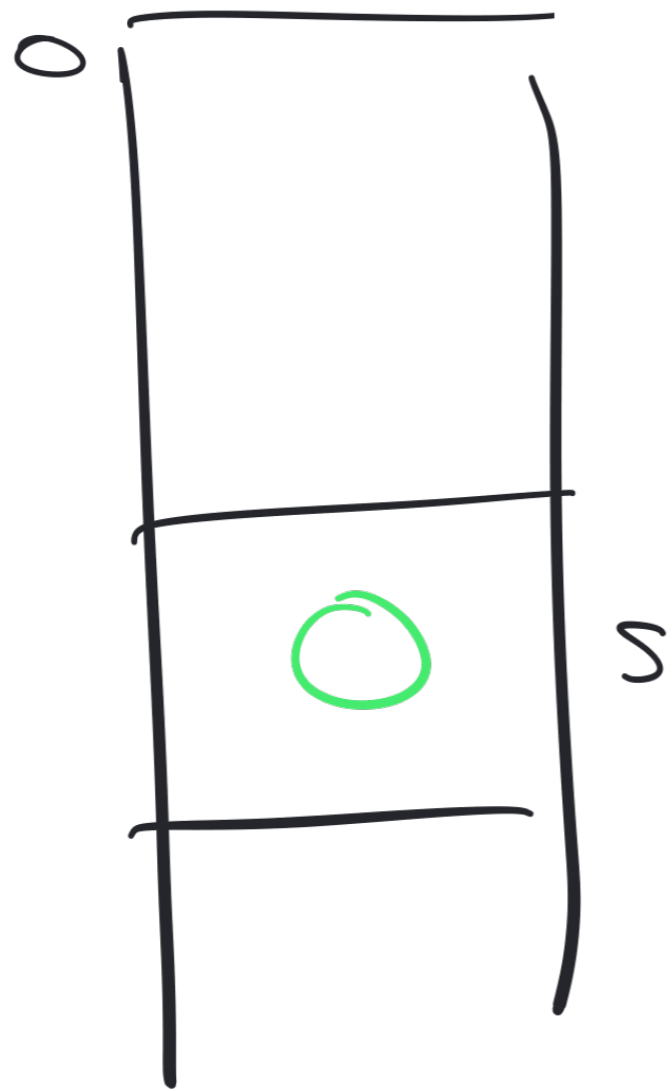


(8 bytes)

(all ptrs are 8 bytes)

char *s = 0;

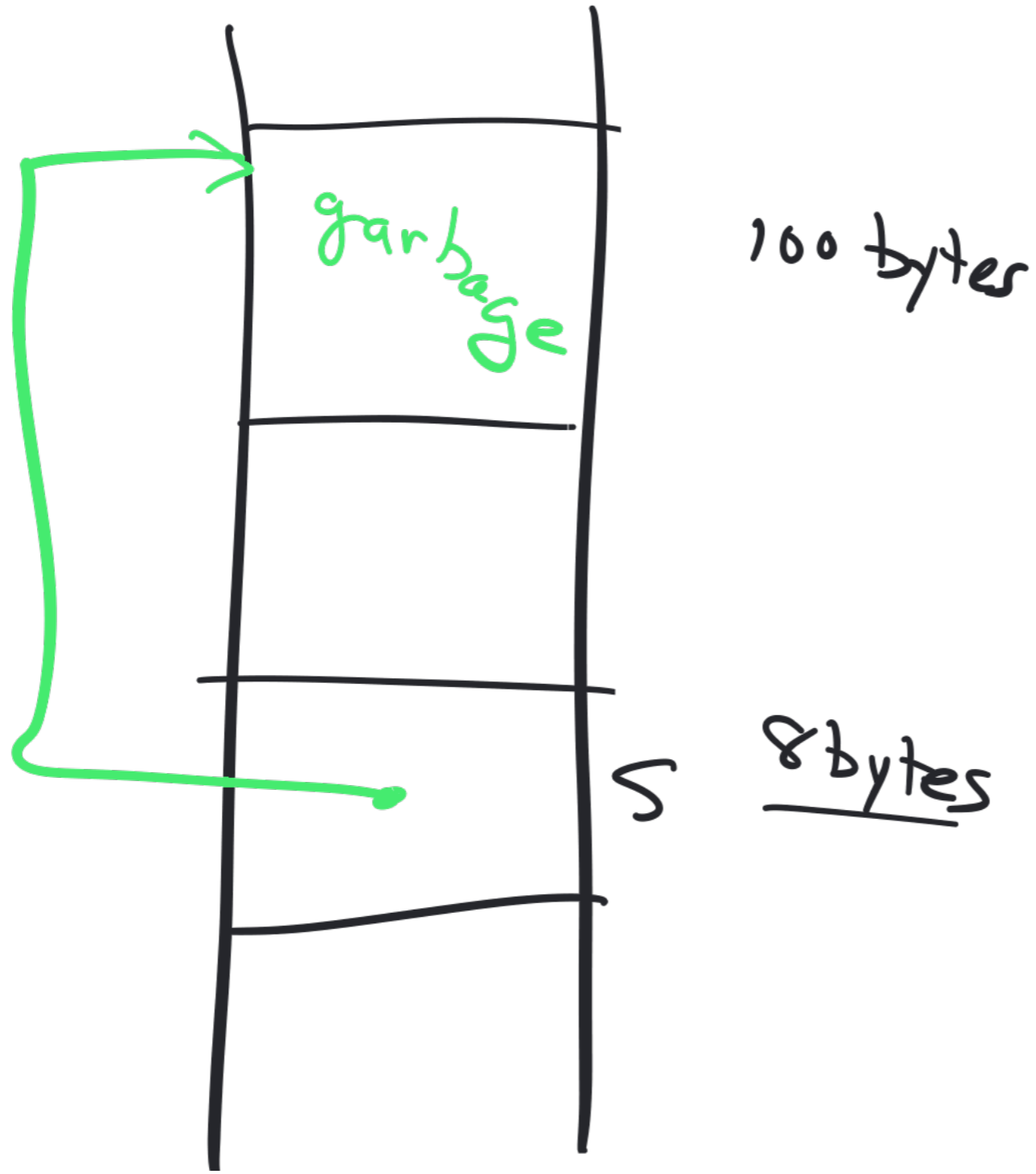
if (fgets(infile, s, 100) == NULL)



fgets tries to write bytes to where s is pointing.

Segmentation fault

```
char *s = malloc(100);
```



```
fgets(infile, s, 100)
```

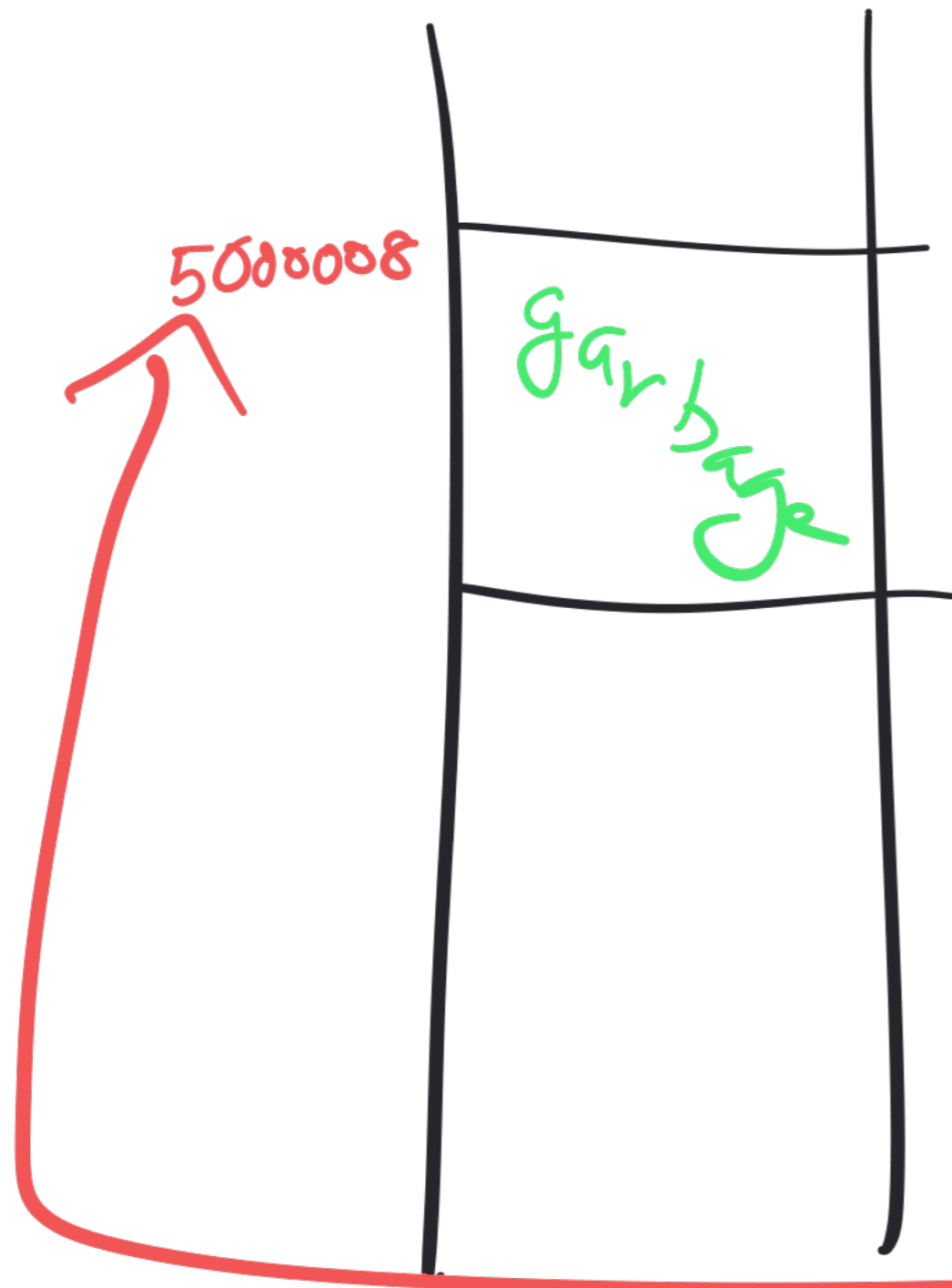
OK

...

```
free(s);
```

char s[100];

fgets(infile, s, 100)
OK



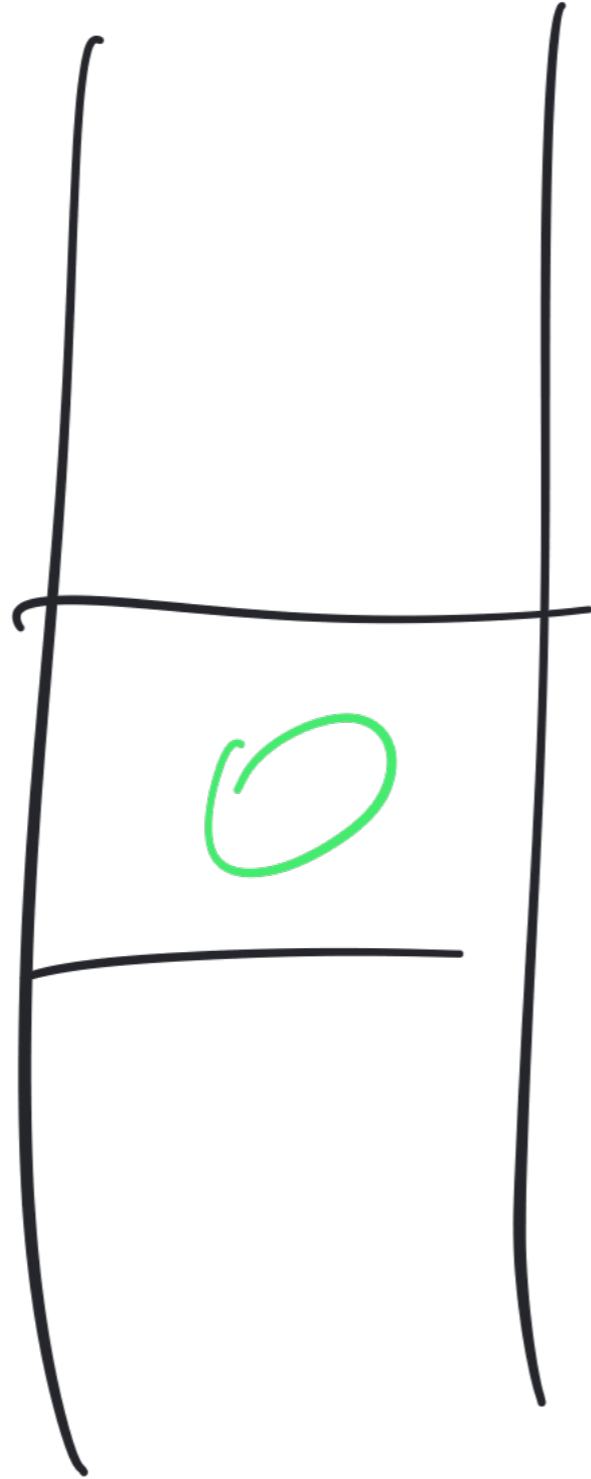
100 bytes

s as a pointer
is not stored

in memory

Synonymous with

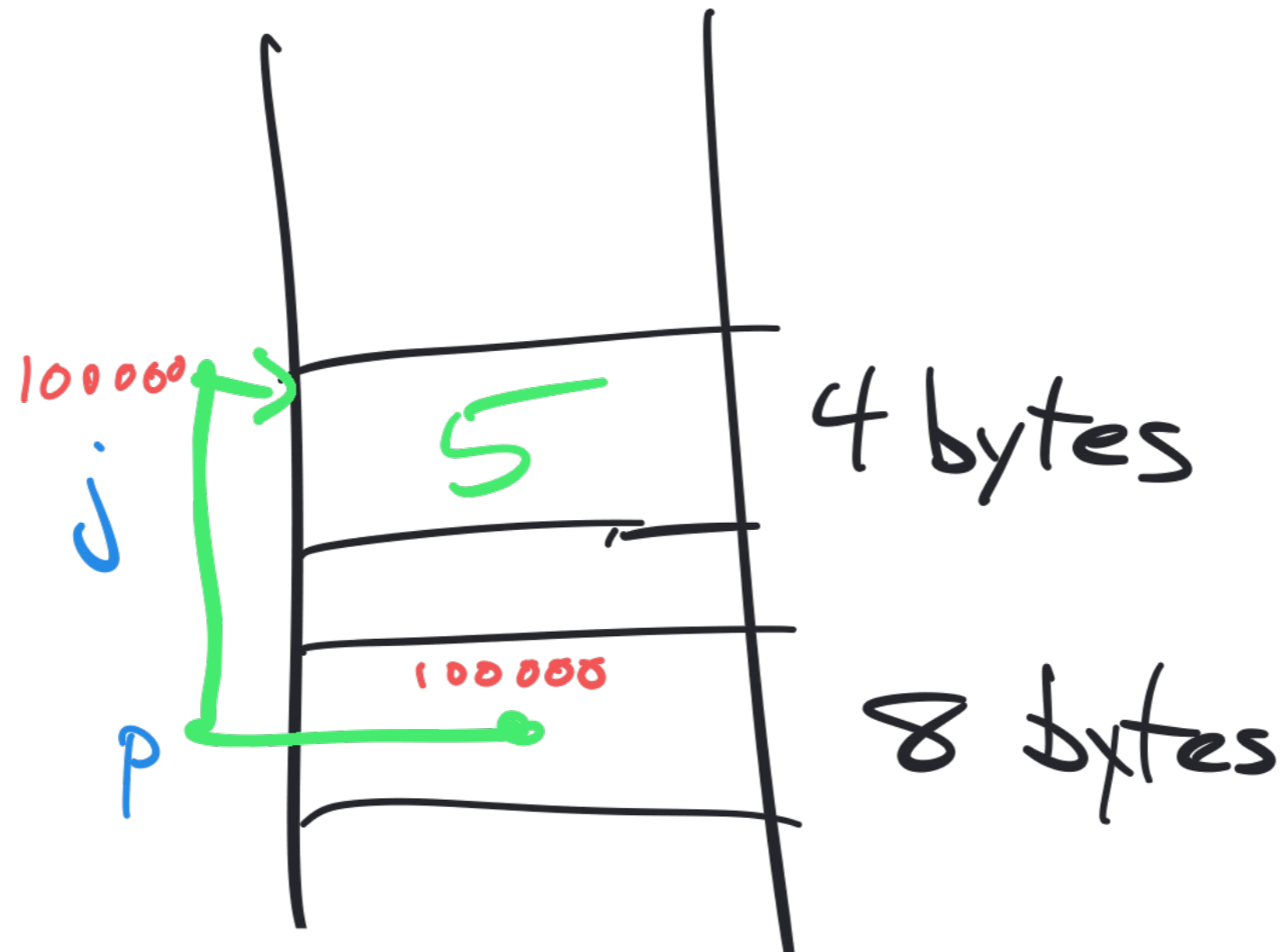
`int *n = 0;`



↳ bytes

int j = 5;

int *p = &j;




```
int x = 32;  
int y = 73;
```

```
void swap(int *a, int *b)  
{  
    int saved_int = *a;  
    *a = *b;  
    *b = saved_int;  
}
```

