



CS 208

W, 10 Jun 2024

$0 \times 1 \text{ C D}$

$16^2$ ,  $16^1$ ,  $1^0$

$256$ 's

$$= 256 \times 1 + 16 \times 12 + 1 \times 13$$

$$= 256 + 192 + 13$$

$$= 461$$

50  $\rightarrow$  0x

how many 16's?  $\rightarrow$  (3  $\times$  16 = 48)

$$3 \times 16 + 2 \times 1$$

$$= 50$$

0x32

50  $\rightarrow$  Ob ?

64's ? 0

32's ? 1

16's ? 1

8's ? 0

4's ? 0

2's ? 1

1's ? 0

Ob 0110010

$$50 - 32 = 18$$

$$-16 = 2$$

$$-2 = 0$$

010111  $\rightarrow$  23  
168 + 2 1

$$16 + 0 + 4 + 2 + 1$$

ABCD

0x8DE3A → 0b?



Octal: base 8

$$072 = 7 \times 8 + 2 \quad ?$$

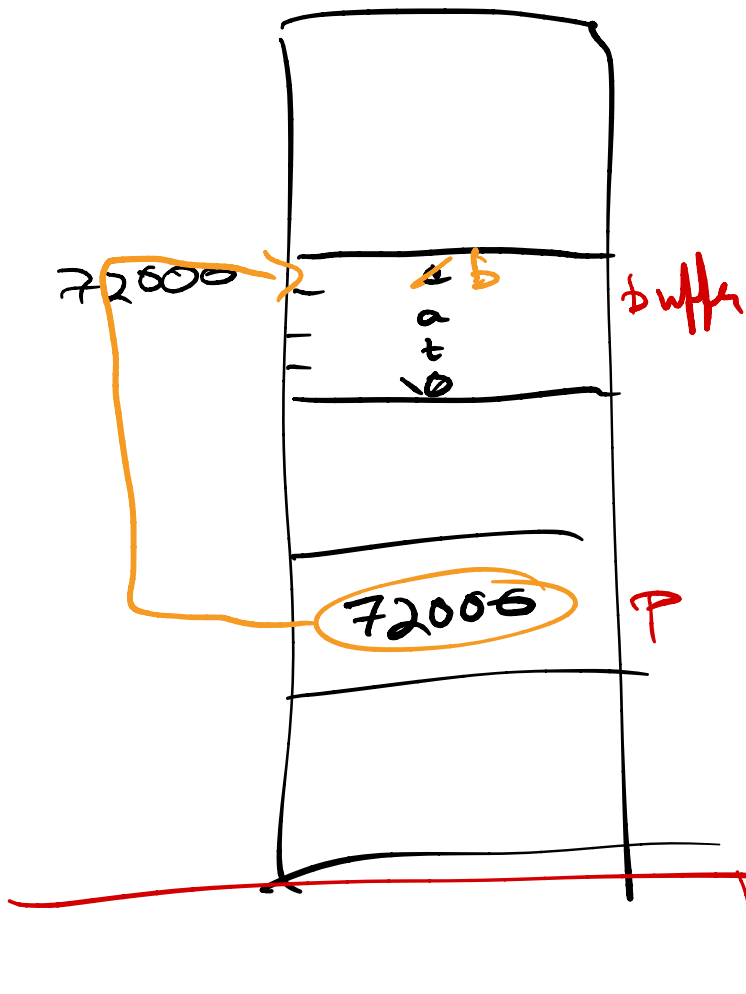
= 58



0b 111 010

tell the  
C compiler  
this is octal





```
char buffer[4] = "cat";
```

```
char *p = buffer;
```



```
*p = 'c';
```

the thing pointed to by p

```
char buffer[4] = "cat";
```

```
buffer = 'b';
```

← compile error

char \* const      char

```
*buffer = 'b';
```

← OK

```
buffer[0] = 'b';
```

←

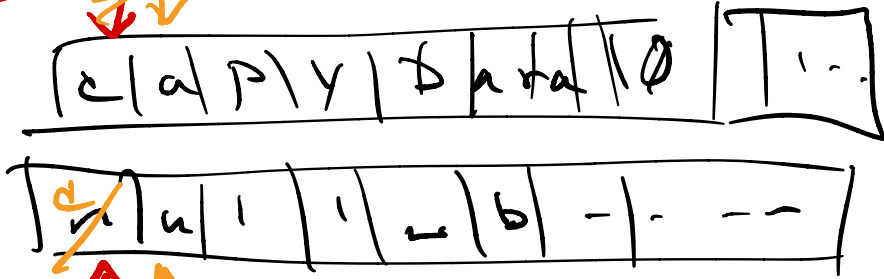
pointers.c game 5

creature[100]

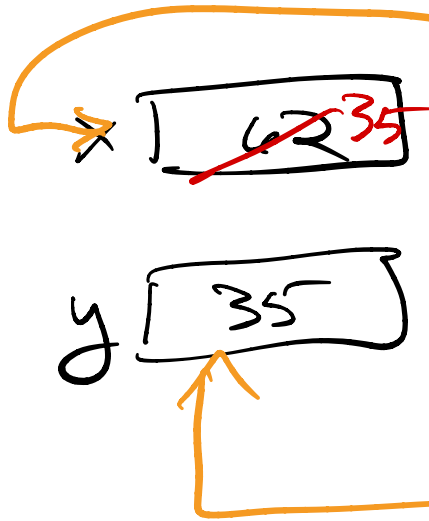
beast[100]

source-pointer

destination-pointer



```
int x = 62;  
int y = 35;
```



```
swap_integers  
(int *a, int *b)
```



\*a = \*b;