Nicole Luong

Week 7

Pointers

Help Sessions!

How was Assignment 1?

Tutorial vs Lab



Pointers



Pointers

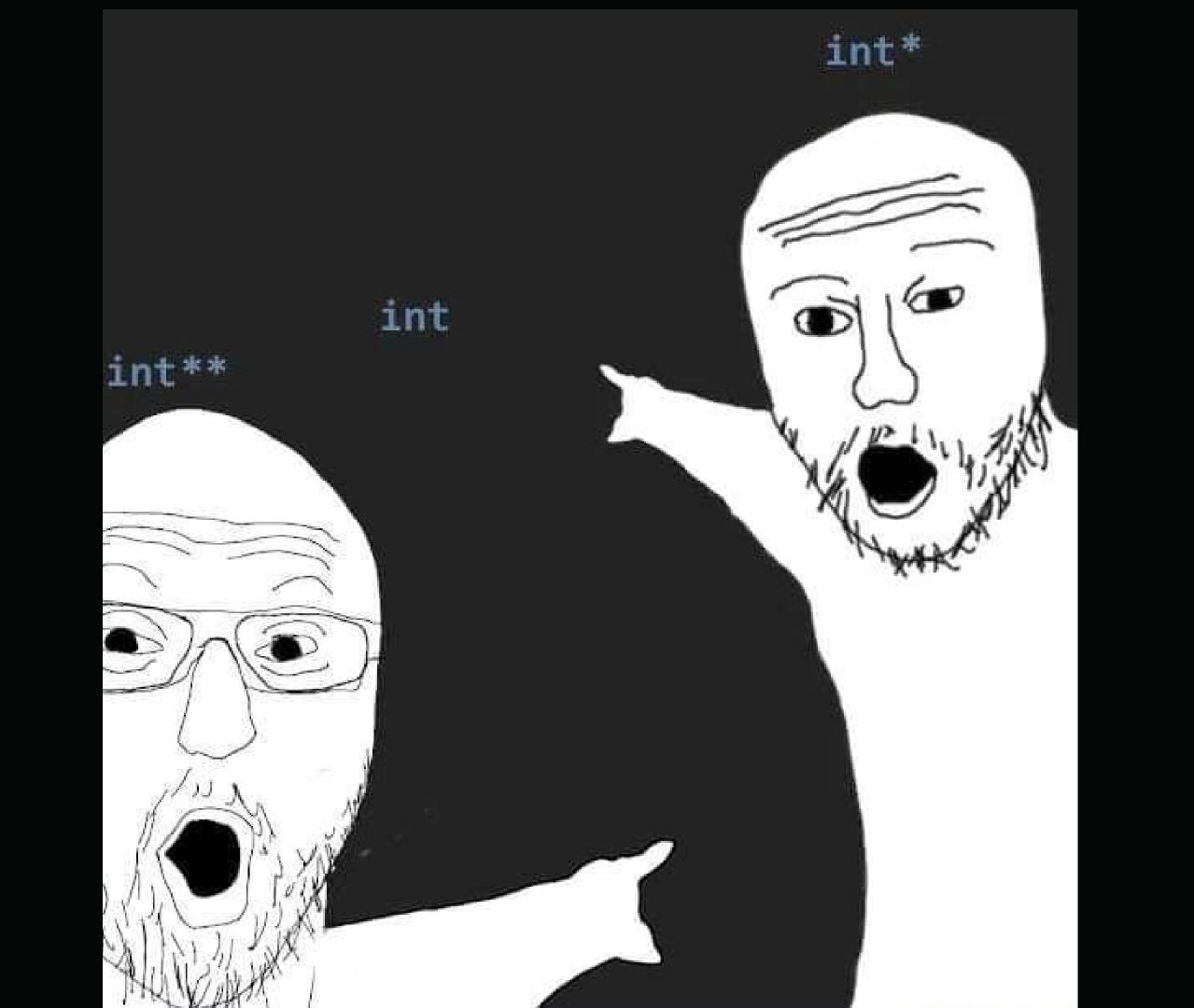
How do we:

- Initialise a variable
- Initialise a pointer
- Change the value of the variable
- Print the value of the variable





int



Vicole Luong

Pointers

Instructions

```
int n = 42;
int *p;
int *q;
p = &n;
*p = 5;
*q = 17;
q = p;
*q = 8;
```

Address	Variable
0xFF80	Type: ??? Name: ??? Value: value
0xFF84	Type: int Name: n Value: value
0xFF88	Type: int * Name: p Value: value
0xFF8C	Type: int * Name: q Value: value
0xFF90	Type: ??? Name: ??? Value: value

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Struct Pointers

```
struct person {
    char character_name[100];
    int num;
};
// Swaps the numbers of each struct
void swap_numbers(struct person member1,
                  struct person member2) {
    int temp_num = member1.num;
    member1.num = member2.num;
   member2.num = temp_num;
```

EOF Loops

```
// Change this program so it reads in
// input line by line
#include <stdio.h>
#define MAX_LETTERS 100
int main (void) {
    char my_var;
    while (scanf(" %c", &my_var) == 1) {
        printf("Input: %c\n", my_var);
    return 0;
```

Lab Time!