Tute 07 COMP1511 23T1

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content

- pointers
- malloc
- command line arguments

assignment 1

- what did we learn
- any tips to yourself or others

pointers

exercise on tute page

https://cgi.cse.unsw.edu.au/~cs1511/22T3/tut/07/que stions

- declaration: type *ptr
- referencing: ptr = &variable
- accessing/deferencing: *ptr
- struct_ptr->field is equivalent to (*struct_ptr).field
 - the * is used both to indicate the type is a pointer and for dereferencing (and multiplication as well!)

pointers example

- increment_time.c
- increment_time_struct.c

malloc and arrays

```
struct pet {
    int age;
    int weight;
    char name[100];
};
int main(void) {
    int i;
    double d;
    int array1[10];
    char array2[4];
    struct pet coco;
    struct pet class_pets[5];
    return 0;
```

command line arguments

```
int main(int argc, char *argv[]) {
}
```

```
argc is how many arguments there are.

argv is an array of strings, with each argument.

"./program hello world"

argc is 3

argv = ["program", "hello", "world"]
```