Review T2

Thu 23 JAN 2019

- Built-in C Types: char, int, float, double, long int, short, long double, long long, void, File, bool, (built-in)* "pointers"

- Examples:

  int * ~ "ptr→int" ~ "array of int" ([int])

  int ** ~ "ptr→ptr→int" ~ "array of array of int" ([[int]])

- Given the following code

```
int a;
int b = 7;
int* pi;
pi = &a;
*pi = 3;
```

How can we make this work?

a) Memory has been allocated to a. True or false? T

b) Has a been defined? No, but it has been declared

c) Does work? NO

Code it. Segmentation fault (Compiler compiles ok but)

Why?

Modify so that it prints pi but no assignment

just declare pi & print it. What do I get?

Ø ~ NULL → can't write here

(Type is know but not value)

Question: Is this meaningful: long int d = π

What is it doing?
(Add this to previous code)

WARNING Why?

Ans: LHS is not a pointer!

2nd part: How to make it work? Find the code

Ans: int **d = π

3rd part: Describe d:

Ans: d is a pointer to [int]