

Goals

Friday, January 26, 2018

9:54 AM

Expand on Pointers

- non-native Types (struct)
- the \rightarrow operator

Functions:

Pass-by-value

- reference
- pointer
- array

Dynamic Variables

Pass-by-Value Functions

Friday, January 26, 2018 9:58 AM

void passByVal (int a)

- when called, "copy" of the argument's value

- e.g. int main() {

int x = 3

passByVal(x)

cout << x << endl

}

3

passByVal(int a)

{ local variable

a++;

}

Pass-by-Ref

void myPBR (int &a)

- e.g.

int main() {

int x = 3;

myPBR(x)

}

4

myPBR (int &a)

{

++a;

}

Pass By Pointer

void myPBP(int *p)

- like w/ PBR, an address is being passed. However, have to call w/ pointer type.

-e.g. call:

int *myPtr;
myPBP(myPtr)

-e.g. call

int x;
myPBP(&x);

-e.g.

int x;
int *xPtr;
myPBP(xPtr);

~~**~~

Pass-by-array

void myPBA(int arr[], int n)

-like with PBR and PBP, an address is being passed

- the whole array is NOT passed,
just a pointer to the 1st
element