

C Language VIII: Polymorphism

CMSC 313
Sections 01, 02

Polymorphism in C++

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In-class c_decl Exercises

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Challenge 1

Implement: `int add2(int a, int b):`

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Challenge 2

Implement: `int add2_b(int *a, int *b)`

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Challenge 2b

Implement:
`int add2_c(int *result, int *a, int *b)`

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Challenge 3

Implement: `void swap(int *a, int *b)`

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Challenge 4

Implement:
`void strcmp(char *a, char *b)`

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Challenge 5

Write a C function `lazycmp()`, which takes 3 parameters:

1. A pointer to the first "thing", of unknown type;
2. A pointer to the second "thing"
3. A pointer to a function which accepts pointers to two "things", and returns <0, 0, or >0

Calls that passed function w/Thing 1&2;
Returns what that function returned

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Challenge 6

Implement:

```
int lazycmp(void *a, void *b,  
            int (*cmpfuncptr)(void *, void *))  
{  
    return (*cmpfuncptr)(a, b);  
}
```

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