## Fall 2020 CS 3723 Programming Languages Assignment #3: SCOPE

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Run the C code shown below and fill in the blanks (1 point each, 12 pts):

```
funcA: x y z = 310 220 130
funcB: x y z = 310 210 420
funcC: x y z = 150 220 130
main: x y z = 310 220 130
```

Now, pretend C has dynamic scope. What would the results be? Fill in the blanks (4 pts each, 48 pts):

```
funcA: x y z = 310 220 130
funcB: x y z = 310 230 450
funcC: x y z = 150 230 450
main: x y z = 150 230 450
```

```
#include <stdio.h>
int x = 300;
int y = 200;
int z = 100;
static void funcA(void) {
 x += 10;
 y += 20;
 z += 30;
  printf("funcA: x y z = %d %d %d n", x, y, z);
}
static void funcB(int y) {
  int z = 400;
 y += 10;
  z += 20;
 funcA();
 printf("funcB: x y z = %d %d %d n", x, y, z);
}
static void funcC(int x) {
 funcB(200);
 x += 50;
 printf("funcC: x y z = %d %d %d n", x, y, z);
}
int main(int argc, char *argv[]) {
```

```
funcC(100);
printf("main: x y z = %d %d %d\n", x, y, z);
return 0;
}
```