**Programming in C**

**Quiz 3**

 April 5, 2015

Instructions: Write briefly and clearly. If I can’t read it, I can’t grade it. Write only one answer.

1. Show the output of the following code in the empty column box, below.

|  |  |
| --- | --- |
| #include <stdio.h>void comp1(int \*, int \*);int comp2(int , int \*);int main(void) { int a=3, b=5, prod; printf("a=%d, b=%d\n",a,b); comp1(&a,&b); printf("a=%d, b=%d\n",a,b); prod = comp2(a,&b); printf("a=%d, b=%d\n",a,b); printf("The product= %d\n",prod); printf("The product= %d\n", b \* a); system("pause"); return 0;}void comp1(int \*a, int \*b) { \*a = 0; \*b = 5;}int comp2(int a, int \*b) { int c; a = 10; \*b = 33; c = \*b \* a ;return c;} | **a=3, b=5****a=0, b=5****a=0, b=33****The product= 330****The product= 0** |

1. **Write a function** (ops) that receives 2 integer values a and b from the main program and computes and saves the multiplication, addition, and subtraction (a-b) of the 2 integers. Do not print results to the display. Do not write the main function. The function prototype in the main program is as follows:

void ops(int, int, int \*mult, int \*add, int \*sub);

Solution:

void ops(int a, int b, int \*mult, int \*add, int \*sub) {

\*mult = a \* b ;

 \*add = a + b ;

\*sub = a - b ;

}