**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.

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| --- | --- |
| #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 ;

}