ICS 104 Quiz4 212 sec 9

**Part1 (5 points)**

1) Which of the following **if**-conditions is always **False** for all values of variable **m**?

if (m > 10 && m < -20) // 1

if (m < 10 || m > -20) // 2

if (m > -20 && m < 10) // 3

if (-20 < m < 10) // 4

A. 1 only

B. 2 only

C. 3 only

D. 4 only

2) What is the output generated by the following C code fragment?

int x=3;

if(x = 4)

printf("Four");

else

printf("Five");

printf("%d",x);

**A. Four3**

**B. Five3**

**C. Four4**

**D. Five4**

3) Consider the following C code fragment:

int i;

for (i=1;i<10;i++)

printf("ICS");

printf("ICS");

How many times is the word “ICS” printed when we execute the above code?

A. 11 times

B. 10 times

C. 18 times

D. 20 times

4) Consider the following declaration:

int x; double y;

Based on the following user input: **3.5 7**

Which of the following is the correct call to scanf to read correctly the above values.

A. scanf("%d%lf",&y,&x);

B. scanf("%lf%d",&x,&y);

C. scanf("%d%lf",&x,&y);

D. scanf("%lf%d",&y,&x);

5) What will be the value displayed by the following C code fragment:

int x=3, y=5;

printf("%d",++x \* y--);

A. 16

B. 20

C. 12

D. 15

**Part2 (5 points)**

What is the output generated by the following C code fragments?

|  |  |
| --- | --- |
| int k,m,in,out; // 2 pts  in=0;out=0;  for(k = 1; k < 7; k=k+2){  out++;  for(m = 5; m >= 2; m=m-2)  in++;  }  printf("%d %d %d %d",out,in,k,m); | 3 6 7 1 |
| int x=5, y=7; // 1 pt  int \*p1=&x;  int \*p2=&y;  x=10;  y=\*p1;  \*p2=\*p2+5;  printf("x=%d, y=%d",x,y); | y=10 , y=15 |
| int x=10, y=20; // 1 pt  test(&x,y);  printf("x=%d, y= %d",x,y);  test is defined as:  void test(int \*a, int b){  b=\*a+10;  a=&b;  } | x=10 y=20 |
| // 1 pt  printf("%d\n",(3 && 2)\*2);  printf("%d\n",456%100/10); | **2**  **5** |