CS1050 - C Programming Quiz 3 SPRING 2016

There are 10 questions on this quiz. DO NOT PUT YOUR ANSWERS ON THIS SHEET – RECORD THEM ON THE ANSWER SHEET ONLY.

Use the following code for the next question. IGNORE ALL COMPILE ERRORS unless a question says otherwise.

1 #include <stdio.h>

2 #include <math.h>

3 int main ( void ) {

4 double amount;

5 double principal = 2100.0;  
6 double rate = .05;

7 int year;

8 printf(“%4s%21s\n”, “Year, “Amount on deposit”);

9 for ( year = 1; year < 10; year++) This only loops 9times

{

10 amount = principal \* pow( 1.0 + rate, year);

11 printf(“%4d%21.3f\n”, year, amount );

12 }  
13 if (principal >= 1000)  
14 if (principal <= 2000)  
15 printf(“Deposit is OK”);  
16 else

17 printf(“Deposit is too high”);

18 return 0;

19 }

1. When this program terminates, what will be the value of the variable “year”?

10

1. What will the last printed line in this program display?

Deposit is too high

1. Which line of code has a code has a compile error (HINT: it’s between lines 4 – 11).

Line 8 He started the quote at year but did not close it.

1. Write a **for** loop with a **printf** statement that prints out the following values using “x” as the control variable:  
    12, 18, 24, 30, 36  
   for( int I = 12; I <=36; x+=6) not x+6 wrong

Pf(“%d”, x)

OR

Int x =12

While (x<36)

{

Pf(“%d”, x)

X+=6

}

1. Will the **printf()** statements below execute using these variables and values?   
    int num1 = 80, num2 = 90;  
     
   a) if (num1 >= 90 && num2 <=80) printf(“Hello”);  
   b) if (num1 == 90 || num2 > 90) printf(“Goodbye);

No they wont

Us he true table to analysis it.

|  |  |  |
| --- | --- | --- |
| 0 | 0 | 0 |
| 0 | 1 | 0 |
| 1 | 0 | 0 |
| 1 | 1 | 1 |

1. If I have the following code, what will be the result printed from lines “c.”, “d.” and “e.”?  
   a. int n1=5, n2=2, n3 = 4;  
   b. sum = n1 + n2++ ( post increment)+ (pre increment)++n3;

5+2+5 = 12  
c. printf (“sum=%d”, sum);  
d. printf (“n1=%d”, n1++);  
e. printf(“result=%10.2f”, n1 / n2);

1. What will “z” equal when this is finished:  
     
   int x=5, y=4, z=0;  
   z = x % y;

Z =1  
  
  
C PROGRAMMING QUIZ 3 SPRING 2016 NAME \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  
  
ANSWER SHEET LAB SECTION (A-M) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  
  
  
  
  
1) \_\_\_\_\_\_\_\_\_\_\_\_  
  
  
2) \_\_\_\_\_\_\_\_\_\_\_\_  
  
  
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4) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  
  
  
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5) a. YES / NO (circle one)  
  
  
 b. YES / NO (circle one)  
  
  
6) c. \_\_\_\_\_\_\_\_\_\_\_\_\_\_  
  
  
 d. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  
  
  
 e. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  
  
  
7) \_\_\_\_\_\_\_\_\_\_\_\_\_\_