Name: Id#

ICS 103, Term 132

Computer Programming in C

Quiz# 2

Date: Sunday, March 9, 2014

**Q1.** Consider the following program. What will be the output for the different values of x typed by the user?

|  |  |
| --- | --- |
| Value of x typed  by user | Program output |
| **1** |  |
| **2** |  |
| **3** |  |
| **5** |  |
| **6** |  |

#include <stdio.h>

int main()

{

int x;

printf("Enter a value for x: ");

scanf("%d", &x);

switch(x) {

case 1: x=x+2;

break;

case 3: x=x+1;

case 5: if(x==4)

x=x+6;

case 6: x=x+3;

break;

default : x=x-1;

}

printf("%d\n",x);

return 0;

}

**Q2.** Consider the following program. What will be the output for the different values of x typed by the user?

#include <stdio.h>

|  |  |
| --- | --- |
| Value of x typed  by user | Program output |
| **3** |  |
| **7** |  |
| **20** |  |
| **10** |  |
| **9** |  |

int main() {

int x;

printf("Enter a value for x >");

scanf("%d",&x);

if(x >= 5 ) {

if(x < 10){

if(x > 8)

printf("A");

else

printf("B");

}

else{

if ( x >= 20)

printf("C");

else

printf("D");

}

}

else

printf("F");

return 0;

}

**Q3.** Write a function that receives the Cartesian coordinates of two points (x1,y1) and (x2,y2) and computes their distance computed by the following formula:

Assume that the input and output arguments are of type double.