EE 1910

Dr. Johnson

Homework 7

1 – Provide the value of a,b,c after executing the following code snippits. 60pts

evaluate each problem individually

with a = 3, b = 1, c = 5
if (a != 0)
  b = 4;
else
  c = 2;

a != 0 → T
b → 4

a	b	c
3	4	5

with a = 3, b = 5, c = 3
if (c == 2)
  b = 1;
else
  a = 2;

c == 2 → F
a → 2

2	5	3

with a = 5, b = 0, c = 3
if (a && b)
  a = 3;
else
  b = 2;

a && b → F
b → 2

5	2	3

with a = 0, b = 0, c = 3
if (a || b || c)
  b = 1;
else
  c = 5;

a || b || c → T
b → 1

a	b	c
0	1	3

with a = 0, b = 0, c = 1
if (a)
  if (b)
    c = 2;
  else
    c = 3;
else
  c = 5;

a → F
c = 5

0	0	5

with a = -4, b = 0, c = 2
if (a)
  if (b)
    c = 3;
  else
    c = 2;

a → T
b → F
c = 2

-4	0	2

2 – Provide the value of a,b,c after executing the following code snippits.   40 pts
evaluate each problem individually

with a = 3, b = 0, c = 1
if (c == 0 || a && !b)
   if (!c)   (1 == 0) || (3 && T)
      b = 1;   F || T → T   a   b   c
else   !T → F
   a = 5;   a = 5   5   0   1

with a = 0, b = 0, c = 5
if (c = b){   Note = not ==
   b++;   c = 0 → False   a   b   c
   c--;
}   c = -1   0   0   -1
else
   --c;

with a = 4, b = 4, c = 2
if (c = b){   Note = not ==
   b++;   c = 4 → True
   c--;   b = 5
}   c = 3   4   5   3
else
   --c;

with a = 0, b = 0, c = 5
if (c = a < c){
   a += 3;   Note = not ==
   b -= 1;   c = 1 → True
}   a = 3   3   -1   1
else   b = -1
   a = b++;