HW 11

Logic

In this HW
Logical expressions use logic syntax. E.g. !a, not a, ab, a&b, a and b, a + b, a | b, a or b
Programming expressions use the C operators. E.g. !a, a && b, a || b

Name: _____   Time spent: _____min

1) Evaluate the following logical expressions individually   20 pts

a = T   b = F   c = T

True/False

a OR b

[   ]

a AND b AND c

[   ]

a OR NOT(c)

[   ]

2) Evaluate the following logical expressions individually   20 pts

a = T   b = F   c = T   d = F

True/False

a | b & c

ab+c

!(d | b & !b)

3) Evaluate the following programming expressions individually   20 pts

Provide both a numerical value and a logical value

Int a;   int b;   float c;   char d;
a = 5   b = 15   c = 2.5   d = 'n'

Value

Numerical	True/False

b

b – 3*a

2*c – a - d

4) Evaluate the following programming expressions individually   20 pts

Provide both a numerical value and a logical value

Int a;   int b;   float c;   char d;
a = 5   b = 15   c = 2.5   d = 'n'

Value
Numerical   True/False

!b/3

b || d && !a

b – 6 * c && d / 5

5) Evaluate the following programming expressions individually   20 pts

Provide both a numerical value and a logical value

Int a;   int b;   float c;   char d;
a = 5   b = 15   c = 2.5   d = 'n'

Value

Numerical	True/False

c > d

a − b < 5

a < b + c > 0