

ENGG1340 Computer Programming II  
Module 3 Self-Review Exercise

- Chapter 2: 2.8, 2.22
- Chapter 3: 3.9
- Chapter 4: 4.11

1. Evaluate the following expressions:

- a)  $36 / 5$
- b)  $18 + 32 / 6 * 3$
- c)  $6 + 8 \% 11$
- d)  $22.0 / 5$
- e)  $25 + 7 \% 3 + 8 / 3$
- f)  $18.0 + 5.0 * 3.0 / 4.0$

2. Suppose x, y, and z are int variables and x = 2, y = 5, and z = 6. What is the output of each of the following statements?

- a) `cout << "x = " << x << ", y = " << y << ", z = " << z << endl;`
- b) `cout << "Sum of " << x << " and " << z << " is " << x + z << endl;`
- c) `cout << "2 times " << x << " = " << 2 * x << endl;`

3. The following program has syntax mistakes. Correct them. On each successive line, assume that any preceding error has been corrected.

```
const char = STAR = '*'
const int PRIME = 71;
int main
{
    int count, sum;
    double x;
    count = 1;
    sum = count + PRIME;
    x := 25.67;
    newNum = count * ONE + 2;
    sum + count = sum;
    x = x + sum * COUNT;
    cout << " count = " << count << ", sum = " << sum
        << ", PRIME = " << Prime << endl;
}
```

4. Suppose a, b, and c are int variables and a = 5 and b = 6. What value is assigned to each variable after each statement executes? If a variable is undefined at a particular statement, report UND (undefined).

	a	b	c
<code>a = (b++) + 3;</code>			
<code>c = 2 * a + (++b);</code>			
<code>b = 2 * (++c) - (a++);</code>			