# Flash Quiz 1 Questions
## CSE 232 (Introduction to Programming II)

1. Which of the following is an example of a multi-line comment in `C++`?

   (a) `\\Commented text`
   (b) `\* Commented text *\`
   (c) `# Commented text`
   (d) `<!-- Commented text -->`
   (e) `/* Commented text */`

2. What is the output of the following?

```
int a = 4;
cout << a;
int b = a++;
cout << b;
```

   (a) `4 5`
   (b) `4 4`
   (c) `45`
   (d) `44`
   (e) None of the choices are correct

3. You are given the following two functions:

```
void Sum(int a, int b){
 cout << "1st: " << (a + b);
}

void Sum(double a, double b){
 cout << "2nd: " << (a + b);
}
```

   What is the output of the following?

```
Sum(5, 2.0);
```

   (a) `1st: 7`
   (b) `2nd: 7`
   (c) `2nd: 7.0`
   (d) `2nd: 52.0`
   (e) Compile error

4. You are given the following function:

```
void Sum(int a, int b){
 cout << "sum: " << (a + b);
}
```

   What is the output of the following?

```
Sum(5, 2.0);
```

   (a) `sum: 7`
   (b) `sum: 7.0`
   (c) `sum: 52.0`
   (d) Compile error

5. Given the following function declarations, which of the following functions are overloaded?

```
void Red();
int Red();

int Blue(string);
int Blue(int);

string Yellow(string s);
string Yellow();
```

   (a) `Red` is overloaded
   (b) `Blue` is overloaded
   (c) `Yellow` is overloaded
   (d) (a) and (c)
   (e) (b) and (c)

6. What is the return type for a function that does not have a `return` statement?

   (a) `void`
   (b) Nothing, the return type is omitted
   (c) `None`
   (d) `null`

7. Which of the following is equivalent to `double const g{other_g};`?

   Hint: `other_g` may not be a double.

   (a) `const double g{other_g};`
   (b) `const double g = other_g;`
   (c) `double const g = other_g;`
   (d) All of the above are equivalent

8. What is the output of the following?

   ```
   cout << 100 / 3;
   ```

   (a) 100
   (b) 33
   (c) 1
   (d) 33.333333333
   (e) Depends on the type of 10 and 3

9. What is the output of the following?

   ```
   int x = 5, y = 4;
   y += x++;
   y *= 3;
   cout << y / x;
   ```

   (a) 4
   (b) 5
   (c) 4.5
   (d) Undefined behaviour
   (e) None of the choices are correct

10. What is the output of the following?

    ```
    int x = 2;
    double y = x / 4;
    cout << y;
    ```

    (a) 0
    (b) 0.5
    (c) 1
    (d) 2
    (e) 4

11. What is the output of the following?

    ```
    int a = 4;
    int b = 5 * a;
    cout << (b += 2);
    ```

    (a) 5
    (b) 44444
    (c) 5555
    (d) 22
    (e) 20

12. What is the output of the following?

    ```
    int x = 6;
    int y = 8;
    cout << (++x * y++) << endl;
    ```

    (a) 48
    (b) 56
    (c) 54
    (d) 63
    (e) 68

13. Which of the following is NOT a binary operator?

    (a) `++`
    (b) `+=`
    (c) `>=`
    (d) `<<`
    (e) `=`
    (f) `&&`
    (g) `/`

14. You are given the following function:

```
void SomFunc(int a, int b){
 cout << a << " and " << b;
}
```

What is the output of the following?

```
int a = 7;
int b = 13;
SomFunc(++a, b++);
```

(a) 7 and 13
(b) 8 and 13
(c) 7 and 14
(d) 8 and 14
(e) Compile error

15. What is the type of x?

```
auto x = SomFunc("blah");
```

(a) std::string
(b) char
(c) int
(d) void
(e) Cannot be determined

16. What is the output of the following?

```
cout << 5 % 3;
```

(a) 0
(b) 1
(c) 2
(d) 3
(e) 4
(f) 5

17. Which of the following statements takes three inputs in x, y, and z that are provided in a single line, separated by two whitespaces?

(a) cin >> x >> y >> z;
(b) cout >> x >> y >> z;
(c) cout << x << y << z;
(d) cin << x << y << z;

18. Which of the following statements prints x in one line, and then y and z together in the next line?

(a) cout << x << endl << y << z;
(b) cout << x << "\n" << y << z;
(c) cout >> x >> endl >> y >> z;
(d) cout >> x >> "\n" >> y >> z;
(e) (a) and (b)
(f) (c) and (d)