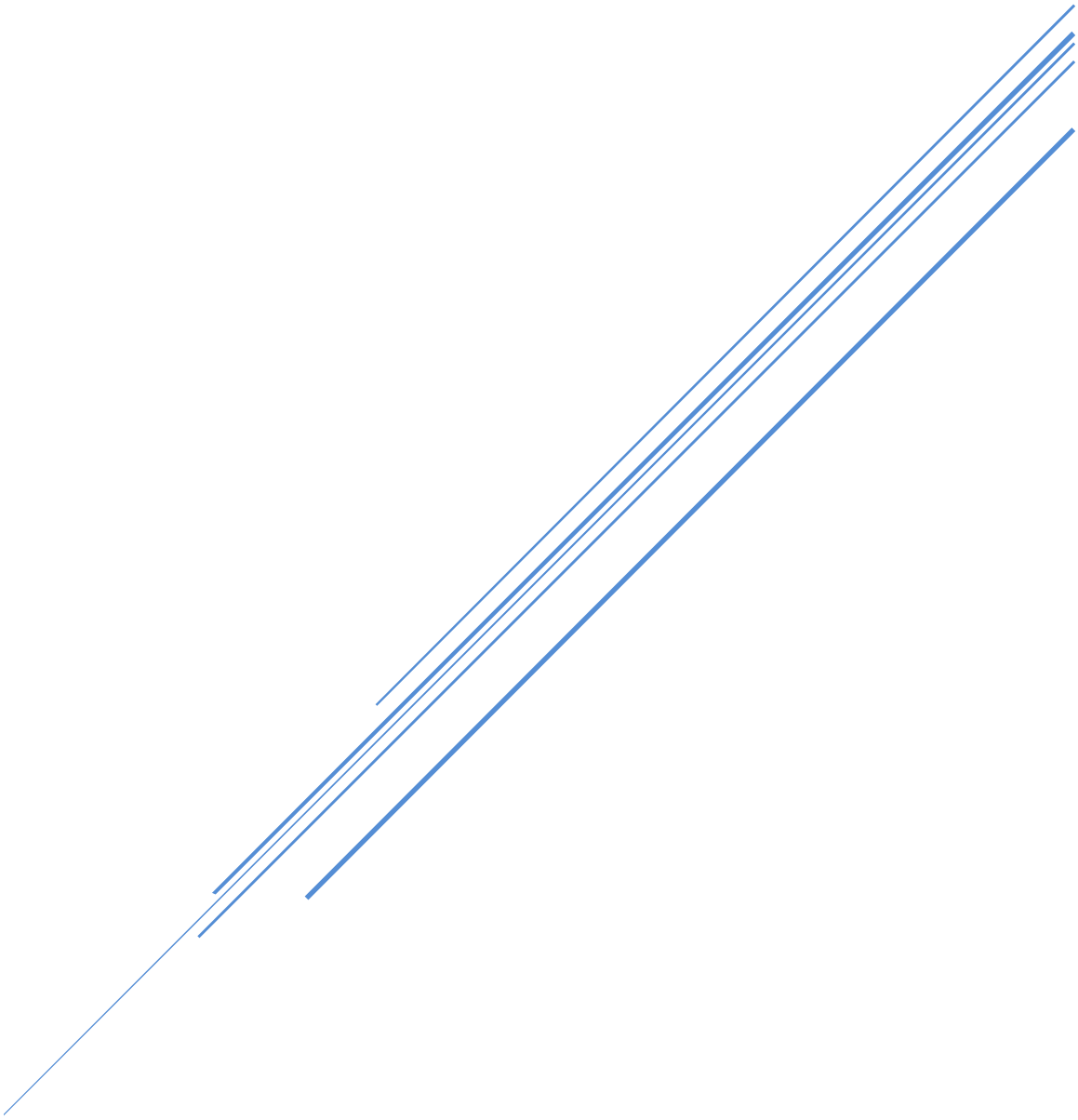
MOHAMMAD HAMDAN



C++ chapter 2 test bank

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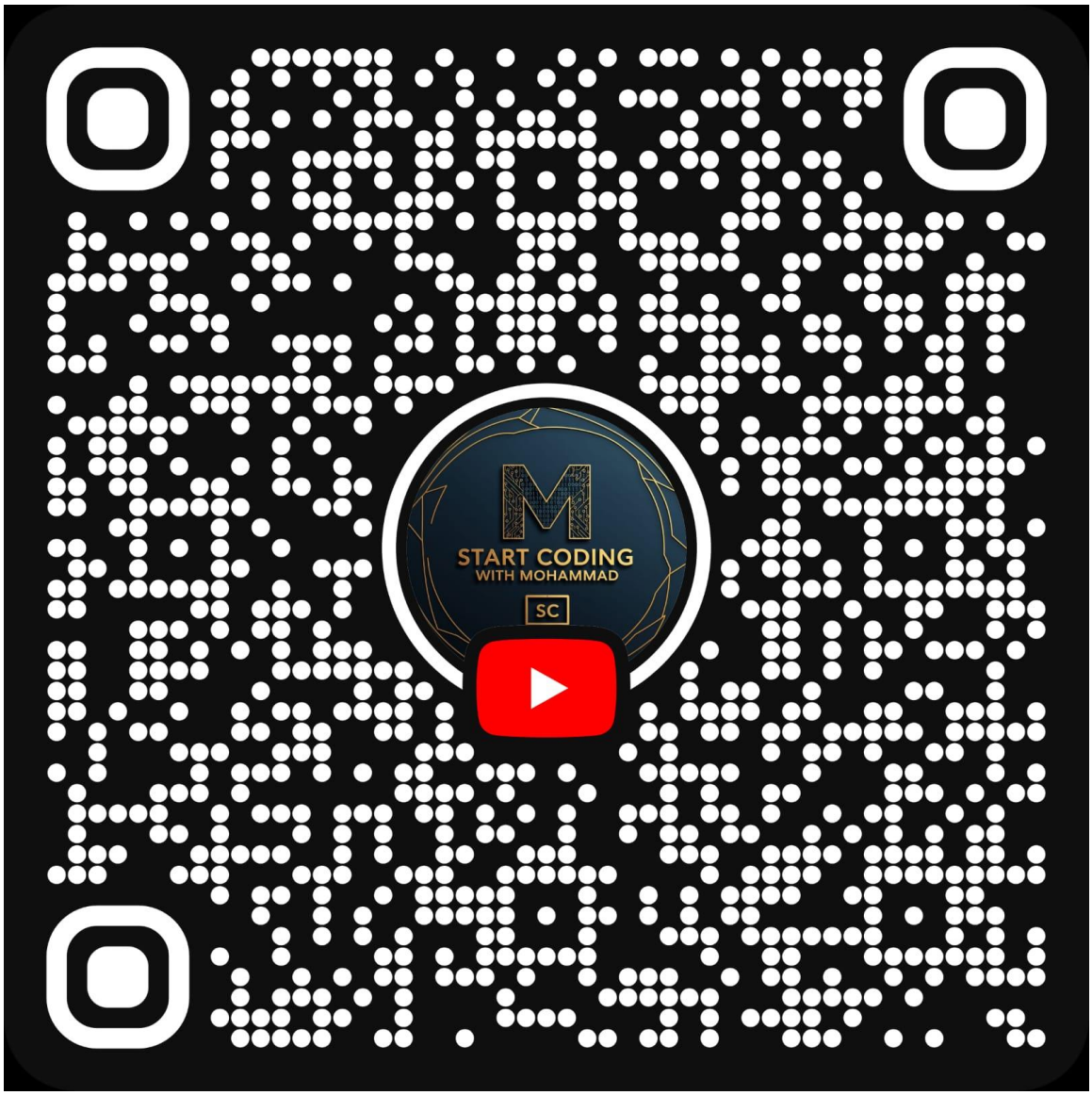

Chapter 2 test bank -Mohammad Hamdan

This document contains 25 C++ questions with their answers

Question 1

What is the output of the following code if the input is `728.914`?

```
string word;
char symbol;
int num;

cin >> num >> symbol >> word;
cout << symbol << "\t" << num << "\n" << word;
```

Output:

```
.       728
914
```

Question 2

What is the output of the following code if the input is `245.768`?

```
int num;
double val;
string message = "C++\nRules!";

cin >> num >> val;
cout << num << "\t" << message << "\n" << val;
```

Output:

```
245     C++
Rules!
.768
```

Question 3

What is the output of the following code?

```
bool flag = false;
float price = 45.99;
char letter = 'A';

cout << flag << "\t" << (int)price << "\t" << (int)letter << "\n";
```

Output:

```
0       45      65
```

Question 4

What is the output of the following code?

```
cout << "This is \"crazy\' //text\n";
cout << "Back\bSpace\rAgain!";
```

Output:
This is "crazy' //text
Again!

Question 5

What is the output of the following code?

```
int a = 5;

cout << a++ << "\t" << ++a << "\t" << a++;
```

Output:
5 7 7

Question 6

What is the value stored in the variable `result` after executing the following code?

```
int result = static_cast<char>('B' + 2);
```

Output:
68

Question 7

What is the value stored in the variable `d` after executing the following code?

```
double d = static_cast<int>('C' + 5 + true * 2);
```

Output:
72

Question 8

What is the output of the following code?

```
cout << 6 + 3 * (4 / 2 * 3) % 5;
```

Output:
3

Question 9

What is the output of the following code?

```
cout << 0 % (9 % (4 / 2 + 3 * 2) % 50 - 4);
```

Output:
0

Question 10

What is the output of the following code?

```
int a = 4, b = 6;
cout << a + 2 - b * a++ % 7 - 3 / (--b + 1);
```

Output:
3

Question 11

What is the value stored in the variable `y` after executing the following code?

```
int a = 4, b = 6;
b -= a + 2 - b * a++ % 7 - 3 / (--b + 1);
cout << b++;
```

Output:
2

Question 12

What is the value stored in the variable `info` after executing the following code if the input is `25 mario`?

```
string info, name;
int age;

cin >> age >> name;
info = "Name is " + name + ", age is " + to_string(age);
cout << info;
```

Output:
Name is mario, age is 25

Question 13

What is the correct way to print the value of variable `n` in the following code?

```
int *ptr, n = 20;
ptr = &n;
cout << "n value is: " << _____ ;
```

Output:
use n directly or use *ptr

Question 14

What is the correct way to print the address of variable `n` in the following code?

```
int *ptr, n = 20;
ptr = &n;
cout << "n address is: " << _____ ;
```

use &n or just ptr

Question 15

What is the correct way to print the address of pointer variable `ptr` in the following code?

```
int *ptr, n = 20;
ptr = &n;
cout << "ptr address is: " << _____ ;
```

use &ptr

Question 16

What is the output of the following code?

```
int *ptr, val = 15;
ptr = &val;
*ptr += val + 8;
cout << val;
```

Output:
38

Question 17

What is the output of the following code?

```
int *ptr1, *ptr2, val = 0;
ptr1 = ptr2 = &val;
(*ptr1)++;
(*ptr2)++;
val++;
cout << ++val;
```

Output:
4

Question 18

What will be printed if `ptr` is a pointer to a dynamically allocated string containing "London" and its address is `0x1000`?

```
string *ptr = new string;
*ptr = "London";
cout << ptr;
```

Output:
0x1000

Question 19

What will be printed if `ptr` is a pointer to a dynamically allocated string containing "London"?

```
string *ptr = new string;
*ptr = "London";
cout << *ptr;
```

Output:
London

Question 20

What is the output of the following code if the address of `ptr` is `0x1000`?

```
string *ptr = new string;
*ptr = "London";
cout << &ptr;
```

Output:
0x1000 (address of the pointer variable itself)

Question 21

What is the output of the following code?

```
int var1 = 16, var2 = 8;
int result = var1 % 4 * --var1 + ++var2;
cout << result++;
```

Output:
9

Question 22

What is the output of the following code?

```
int m = 8, n = 5, sum = 0;
sum += n-- + 2 + (++m * 4) % 5;
cout << sum;
```

Output:
8

Question 23

What is the output of the following code?

```
int x = 3;
double y = x + 7.5;
cout << y;
```

Output:
10.5

Question 24

What is the output of the following code?

```
cout << 1234 << "\r" << "\b" << 567;
```

Output:
5674

Question 25

What happens when you execute the following code?

Code:

```
const int x;
x = 5;
cout << x;
```

Output:
Syntax error because 'x' is const and **cannot be** assigned after declaration.