Faculty of Computer and
Information Sciences
Ain Shams University

Fundamentals of Structured
Programming 2020-2021
Instructors:
Prof. Zaky Taha
Dr. Sally Saad
Dr. Salsabil Amin

Sheet 8

1.

```cpp
int x = 10, y = 20;
int *ptr = &x;
int *ref = &y;
*ptr++;
*++ref;
cout << x << " " << y << endl;
```

what should be the output?

2.

```cpp
int main()
{
    int a;
    int* p;
    a = 2;
    p = &a;
    a = a +1;
    cout << *p << endl;
    getchar();
    return 0;
}
```

what should be the output?

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3.
```cpp
int main()
{
    int a;
    int* q;
    a = 4;
    q = &a;
    cout <<* (q+1);
    getchar();
    return 0;
}
```

what should be the output?

4. **Write C++ program to swap two numbers using pointers**

5. Given the string "A string." Print on one line the letter on the index 0, the pointer position and the letter t. update the pointer to pointer +2. Then, in another line print the pointer and the letters r and g of the string (using the pointer).