Section: B **Quiz 3** **Roll number:** _____

Q1. What would be the output of the following code snippet.

```
int main() {
    int r = <last digit of your roll number>;// <> is a digit
    int *ptr=nullptr;

    cout<< &r<< endl;
    cout<< ptr<<endl;
    ptr = &r;
    cout<<ptr<<endl;
    cout<<(*ptr)++<<endl;
    --r;
    cout<<r<<endl;
    cout<<*ptr<<endl;

    return 0;
}
```

r = 1

Output:

0xFFAB
null
0xFFAB
1
1
1

Q2. Write a function named computePower that calculates the power of a given number. The function should take three parameters: an integer base, an integer exponent, and a pointer to an integer resultPtr. It should compute the base raised to the exponent and store the result in the variable pointed to by resultPtr. In the main function, call computePower with a base and exponent of your choice, and then print the calculated power.

```
void compute power (int base, int exp, int *resultptr){
    for (int i=0 ; i< exp ; i++) {
        base *= base;
    }
    *resultptr = base; }
int main () {
    int res;
    comput power (2, 4, &res);
    cout << res << endl;
    return 0; }
```