Initializers for Instances

- The member initializer list specifies the values for the attributes.
- The initialization happens before the body of the constructor.
- The attributes are initialized in the order in which they are declared.

```
class Account{
public:
    Account(double b): balance(b), minBalance(25.0){ id++; }
private:
    double balance;
    const double minBalance;
    static int id; // declaration
....
};
int Account::id{}; // definition
```

Initializers for Instances

- Rules:
 - 1. Non-static attributes which are declared const or as reference must be initialized in the member initializers list.
 - 2. The sequence of initialization corresponds to the sequence in which the attributes were declared.
 - 3. static attributes as class members are only declared in the class body.

Initialization of the Class Attributes

Class members can be directly initialized.

 If class members are initialized in the initializer list of the constructor and in the class body, the initializer list of the constructor has higher priority.

```
struct MyClass{
    MyClass() = default;
    MyClass(int n): newX(n){}
    int newX = 5;
};
```

classMemberInitializer.cpp