- Exercise

In this lesson, we'll solve an exercise on template arguments.

WE'LL COVER THE FOLLOWING \wedge

Problem Statement

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The class Matrix holds its values in the container Cont.

- Cont should have a default argument std::vector.
- Instantiate myIntVec and myDoubleVec without specifying the container explicitly.

```
#include <initializer_list>
                                                                                          G
#include <iostream>
#include <list>
#include <vector>
template <typename T, template <typename, typename> class Cont >
class Matrix{
public:
  explicit Matrix(std::initializer_list<T> inList): data(inList){
    for (auto d: data) std::cout << d << " ";</pre>
  int getSize() const{
    return data.size();
private:
  Cont<T, std::allocator<T>> data;
};
int main(){
  std::cout << std::endl;</pre>
  // Define myIntVec and myDoubleVec without specifying containers explicitly
  // Call getSize() function on it to check the result
  Matrix<std..string std..list> mvStringlist{"one" "two" "three" "four"}.
```

```
std::cout << std::endl;
std::cout << "myStringList.getSize(): " << myStringList.getSize() << std::endl;
std::cout << std::endl;
}</pre>
```

We'll look at the solution of this problem in the next lesson.