- Solution

Let's review the solution of the exercise in this lesson.

WE'LL COVER THE FOLLOWING ^

- Solution Review
 - Explanation

Solution Review

```
// templateClassTemplateMethods3.cpp
                                                                                             6
#include <initializer_list>
#include <iostream>
#include <list>
#include <vector>
template <typename T, template <typename, typename> class Cont = std::vector>
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>
 Matrix<int> myIntVec{1, 2, 3, 4, 5, 6, 7, 8, 9, 10};
  std::cout << std::endl;</pre>
  std::cout << "myIntVec.getSize(): " << myIntVec.getSize() << std::endl;</pre>
  std::cout << std::endl;</pre>
  Matrix<double> myDoubleVec{1.1, 2.2, 3.3, 4.4, 5.5};
  std::cout << std::endl;</pre>
  std::cout << "myDoubleVec.getSize(): " << myDoubleVec.getSize() << std::endl;</pre>
```

```
std::cout << std::endl;

Matrix<std::string,std::list> myStringList{"one", "two", "three", "four"};
std::cout << std::endl;
std::cout << "myStringList.getSize(): " << myStringList.getSize() << std::endl;
std::cout << std::endl;
}</pre>
```







[]

Explanation

The class template Matrix uses, by default, an std::vector for holding it's elements (line 8). Thanks to the default container, a Matrix can be instantiated (lines 27 and 33) without explicitly specifying a container.

Let's move on to specialization in the next lesson.