- Exercise

Let's solve an exercise in this lesson.

• Problem Statement

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Make the public member elem a private member of Array. How does that affect the implementation of the assignment operator?

Uncomment the code in main() to see what happens.

```
#include <algorithm>
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#include <iostream>
#include <vector>
template <typename T, int N>
class Array{
public:
  Array()= default;
  template <typename T2>
  Array<T, N>& operator=(const Array<T2, N>& arr){
          static_assert(std::is_convertible<T2, T>::value, "Cannot convert source type to des
          elem.insert(elem.begin(), arr.elem.begin(), arr.elem.end());
          return *this;
  }
  int getSize() const;
  // you need to make the `elem` private and then run it
  std::vector<T> elem;
};
template <typename T, int N>
int Array<T, N>::getSize() const {
  return N;
int main(){
```

```
// uncomment these line after the above implementation

/*
Array<double, 10> doubleArray{};
Array<int, 10> intArray{};
doubleArray = intArray;

*/
}
```

Let's move on to the solution review of this exercise in the next lesson.