```
Philip Pesic
Week 10
October 23 2022
Week 10 Prog 2
       Convert Program 1 to a template.
              Test with <int> and <double> and <long int>
              Use the test found above for program 1...
// main.cpp
// Week 10 Prog 2
//
// Created by Pippo Pesic on 10/19/22.
//
#include <iostream>
using namespace std;
template <class T>
class MyArrayClass {
      int arraySize;
      T* pArray;
public:
```

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       MyArrayClass() {
       arraySize = 0;
      pArray = NULL;
       }
      MyArrayClass(T size) {
      if (size > 0) {
      pArray = new T[size];
       arraySize = size;
       }
      void setSize(T size) {
      if (pArray == NULL) {
      pArray = new T[size];
       arraySize = size;
       }
      void setAllValues() {
      if (pArray != NULL) {
```

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       cout << "Enter values: ";</pre>
       for (int i = 0; i < arraySize; i++) {
              cin >> *(pArray + i);
       }
       void printAll() {
       if (pArray != NULL) {
       for (int i = 0; i < arraySize; i++) {
              cout << *(pArray + i) << " ";
       }
       cout << endl;
       }
};
int main() {
       MyArrayClass <int>array1;
       array1.setSize(7);
       array1.setAllValues(); //Input 10,15,20,25,30,35,42
```

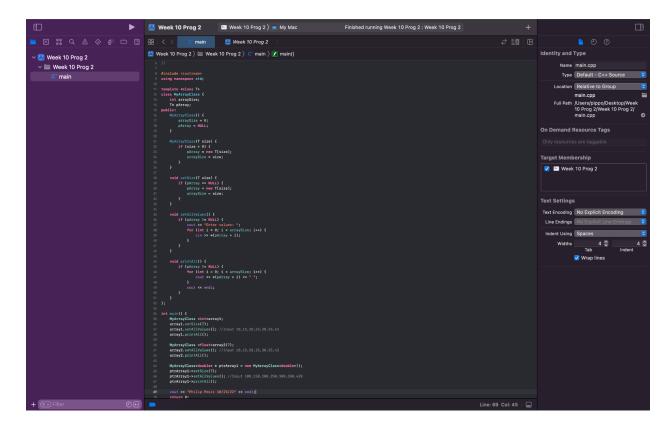
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       array1.printAll();
       MyArrayClass <float>array2(7);
       array2.setAllValues(); //Input 10,15,20,25,30,35,42
       array2.printAll();
       MyArrayClass<double> * ptrArray1 = new MyArrayClass<double>();
       ptrArray1->setSize(7);
       ptrArray1->setAllValues(); //Input 100,150,200,250,300,350,420
       ptrArray1->printAll();
       cout << "Philip Pesic 10/23/22" << endl;
       return 0;
};
```

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I learned how to point to templates