Main.cpp

```
#include <iostream>
#include "pointers.h"
using namespace std;
int main()
  const int NUM COINS = 5;
  int coins[NUM COINS] = \{1, 2, 3, 4, 5\};
  int *intPtr; // Pointer to a double
  int count; // Array index
  Pointers p;
  p.printValues(coins, intPtr, NUM COINS);
  p.printAgain(coins, intPtr, NUM COINS);
  return 0;
```

Pointers.h

```
class Pointers
{
private:
public:
```

```
void printValues(int coins[], int *intPtr, int NUM_COINS);
void printAgain(int coins[], int *intPtr, int NUM_COINS);
};
```

Pointers.cpp

```
#include <iostream>
#include "pointers.h"
using namespace std;
void Pointers::printValues(int coins[], int *intPtr, int
NUM COINS)
    intPtr = coins;
    cout << "Here are the values in the coins array:\n";</pre>
    for (int i = 0; i < NUM COINS; i++)
        cout << intPtr[i] << " ";
    cout << endl;</pre>
    for (int i = 0; i < NUM COINS; i++)
        cout << coins[i] << " ";</pre>
void Pointers::printAgain(int coins[], int *intPtr, int
NUM COINS)
    intPtr = coins;
    cout << "\nAnd here they are again:\n";</pre>
    char junk;
```

```
for (int i = 0; i < NUM_COINS; i++)
{
    cout << "Contents at coins[" << i << "]: ";
    cout << "At memory address " << (intPtr + i) << ": ";
    cout << endl;
    cout << "At memory address " << &(coins[i]) << ": ";
    cout << "At memory address " << &(coins[i]) << ": ";
    cout << "At memory address " << (intPtr + i) << " ";
    cout << "Content is: " << *(intPtr + i) << " ";
    cout << endl;
}
cout << "The number of elements stored in contigous memory
is: ";
    cout << sizeof(coins) / sizeof(coins[0]) << endl;
    cout << endl;
cin >> junk;
}
```

Output: