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/* References vs. Pointers (TestReferenceVsPointer.cpp) */
#include <iostream>
using namespace std;
int main() {
 int number1 = 88, number2 = 22;
 // Create a pointer pointing to number1
 int * pNumber1 = &number1; // Explicit referencing
 *pNumber1 = 99;
                        // Explicit dereferencing
 cout << "*pNumber1:" << *pNumber1<<endl; // 99
 cout << "&number1:"<< &number1<<endl; // 0x22ff18
 cout << "pNumber1:" << pNumber1<<endl; // 0x22ff18 (content of the pointer variable - same as
above)
 cout << "&pNumber1:"<<&pNumber1 << endl; // 0x22ff10 (address of the pointer variable)</pre>
 pNumber1 = &number2;
                            // Pointer can be reassigned to store another address
 // Create a reference (alias) to number1
 int & refNumber1 = number1; // Implicit referencing (NOT &number1)
                         // Implicit dereferencing (NOT *refNumber1)
 refNumber1 = 11;
 cout << "refNumber1:"<<refNumber1 << endl; // 11</pre>
 cout << "&number1:"<<&number1 << endl; // 0x22ff18
 cout << "&refNumber1:"<< &refNumber1 << endl; // 0x22ff18
 //refNumber1 = &number2; // Error! Reference cannot be re-assigned
                // error: invalid conversion from 'int*' to 'int'
                            // refNumber1 is still an alias to number1.
 refNumber1 = number2;
                // Assign value of number2 (22) to refNumber1 (and number1).
 number2++;
 cout << "refNumber1:"<<refNumber1 << endl; // 22
 cout << "number1:"<<number1 << endl; // 22
 cout << "number2:"<<number2 << endl; // 23
```