Type conversion (casting)

In any language, you use the smallest possible storage in order to have efficient programs.  If you have an integer and will never exceed 32,767, than using a **short**might be okay.

What happens when you want to perform an operation on different numeric types? There is a type conversion, some automatic or manually, to save the answer in the smallest possible type.

A type cast expression allows you to promote or demote a value.

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| //============================================================================ // Name : TypeConversion.cpp // Author : Michelle Ruse // Version : // Copyright : Your copyright notice // Description : casting in C++, Ansi-style //============================================================================  #include <limits>  #include <cstddef>  #include <iostrream>  #include <iomanip>  using namespace std;  int main() {  int value;  double number = 16.23;       value = static\_cast<int>(number);     cout << setprecision(2) << value << endl;   return 0; } |