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| **EX05-05.cpp:** *Union* |
| **Line#** | **Code** |
| 12345678910111213141516171819202122 | #include <iostream>using namespace std;union S { int n; // occupies 4 bytes short s[2]; // occupies 4 bytes char c; // occupies 1 byte}; // the whole union occupies 4 bytesint main() { S s = { 0x12345678 }; // initializes the first member,  // s.n is now the active member // at this point, reading from s.s or s.c is undefined behavior cout << "sizeof(S) is " << sizeof(S) << endl; cout << hex << "s.n = " << s.n << endl; s.s[0] = 0x0011; // s.s is now the active member // at this point, reading from n or c is UB but most  // compilers define it cout << "s.c is now " << +s.c << endl // 11 or 00, depending on platform << "s.n is now " << s.n << endl; // 12340011 or 00115678 return 0;} |