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| **EX05-02.cpp:** *Using* ***sizeof*** *Keyword* | |
| **Line#** | **Code** |
| 1  2  3  4  5  6  7  8  9  10  11  12  13  14  15  16  17  18  19  20  21  22  23  24  25  26  27  28  29  30  31  32  33  34  35  36  37  38  39  40  41  42  43  44  45  46  47  48  49  50  51  52  53 | #include <iostream>  using namespace std;  struct Date {  unsigned char day;//1..31  unsigned char month;//1..12. 1=January, 12=December  unsigned short year;// 0..65525  };  struct Student {  const char\* Name;//8  unsigned char Age;//1  float CGPA;//4  char Grades[5];//5  Date DOB;//4  };  int main() {  Student p;  p.Name = "Yong Tau Foo";  Student\* pp = &p;  pp->Name = "Low Shi Fun";  (\*pp).Name = "Low Mee";  cout << "sizeof(char)=" << sizeof(char) << endl;  cout << "sizeof(short)=" << sizeof(short) << endl;  cout << "sizeof(int)=" << sizeof(int) << endl;  cout << "sizeof(long)=" << sizeof(long) << endl;  cout << "sizeof(unsigned char)=" << sizeof(unsigned char) << endl;  cout << "sizeof(unsigned short)=" << sizeof(unsigned short) << endl;  cout << "sizeof(unsigned int)=" << sizeof(unsigned int) << endl;  cout << "sizeof(unsigned long)=" << sizeof(unsigned long) << endl;  cout << "sizeof(float)=" << sizeof(float) << endl;  cout << "sizeof(double)=" << sizeof(double) << endl;  cout << "sizeof(bool)=" << sizeof(bool) << endl;  cout << "sizeof(char\*)=" << sizeof(char\*) << endl;  cout << "sizeof(short\*)=" << sizeof(short\*) << endl;  cout << "sizeof(int\*)=" << sizeof(int\*) << endl;  cout << "sizeof(long\*)=" << sizeof(long\*) << endl;  cout << "sizeof(float\*)=" << sizeof(float\*) << endl;  cout << "sizeof(double\*)=" << sizeof(double\*) << endl;  cout << "sizeof(bool\*)=" << sizeof(bool\*) << endl;  int n;  cout << "sizeof(n)=" << sizeof(n) << endl;  cout << "sizeof(Date)=" << sizeof(Date) << endl;  cout << "sizeof(Student)=" << sizeof(Student) << endl;  Student students[5];  cout << "sizeof(students)=" << sizeof(students) << endl;  char\* v1, v2;  cout << "sizeof(v1)=" << sizeof(v1) << endl;  cout << "sizeof(v2)=" << sizeof(v2) << endl;  return 0;  } |