Arrays of Structures

```
using namespace std;
                                                               using namespace std;
#include <iostream>
                                                               #include <iostream>
                                                                                                The const max allows the loops
                                The variables in the old
                                                               and arrays to resized easily.
                                version that are related to
                                the employee are now in the
                                                              struct emprecord
                                structure emprecord and are
                                                               { int id;
                                                                     double gross, hours, rate, net, fed, state, fica, fedtax,
                                considered to be fields in
                                                              statetax;
                                the structure.
                                                              } ;
                                                                                                   The variable employee is declared
   int main ()
                                                               int main ()
                                                                                                   to be of type emprecord, with the
  { int id, i;
                                                                 { int i;
                                                                                                  array being of size max (3). The
      double gross, hours, rate, net, fed, state, fica,
                                                                    emprecord employee[max];
      fedtax, statetax;
                                                                                                   valid slots range from 0-2.
                                         The variables in the
                                         old version that are
      //----
                                         related to the
      for (i=0; i<3; i++)
                                                                     //-----
      {cout << " Enter id ";
                                                                     for (i=0; i<max; i++)
                                         employee now are
         cin >> id;
                                                                     {cout << " Enter id ";
                                         now fields of the
         cout << " Enter Hours ==> ";
                                                                        cin >> employee[i].id;
                                         variable name (in
         cin >> hours;
                                                                        cout << " Enter Hours ==> ";
                                         this case employee)
         cout << " Enter Rate ==> ";
                                                                     cin >> employee[i].hours;
                                         and must be referred
                                                                        cout << " Enter Rate ==> ";
         cin >> rate:
                                                                        cin >> employee[i].rate;
                                         to with the variable
                                         name, followed by a
                                                                                      _____
                                         period and the field
                                                                      ▲employee[i].gross = employee[i].hours* employee[i].rate;
         gross = hours*rate;
                                         name. The [i] tells
         net = qross*0.7;
                                                                       employee[i].net = employee[i].gross*0.7;
                                         the computer which
                                                                        cout.setf(ios::fixed);
                                         employee's slot is
                                                                        cout.setf(ios::showpoint);
                                         being referenced.
         cout.setf(ios::fixed);
                                                                        cout.precision(2);
                                                                        cout << "Gross : $ " << employee[i].gross << "\t";</pre>
         cout.setf(ios::showpoint);
                                                                        cout << "Hours : " << employee[i].hours << endl;</pre>
         cout.precision(2);
         cout << "Gross : $ " << gross << "\t";</pre>
                                                                        cout << "Rate : " << employee[i].rate << endl;</pre>
         cout << "Hours : " << hours << endl;</pre>
                                                                        cout << "net : " << employee[i].net << endl;</pre>
         cout << "Rate : " << rate << endl;</pre>
         cout << "net : " << net << endl;</pre>
                                                                     return (0);
      return (0);
```