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/* The following code example is taken from the book
 * "The C++ Standard Library - A Tutorial and Reference, 2nd Edition"
 * by Nicolai M. Josuttis, Addison-Wesley, 2012
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 * warranty, and with no claim as to its suitability for any purpose.
 */
#include <iostream>
#include <string>
#include <vector>
#include <memory>
using namespace std;
class Person: public enable shared from this (Person) {
  public:
     string name;
    shared ptr<Person> mother;
    shared ptr<Person> father;
    vector<weak ptr<Person>> kids; // weak pointer !!!
    Person (const string& n)
      : name(n) {
    void setParentsAndTheirKids (shared ptr<Person> m = nullptr,
                                       shared ptr<Person> f = nullptr) {
         mother = m;
         father = f;
         if (m != nullptr) {
              m->kids.push back(shared from this());
         if (f != nullptr) {
              f->kids.push back(shared from this());
       cout << "delete " << name << endl;</pre>
};
shared ptr<Person> initFamily (const string& name)
    shared_ptr<Person> mom(new Person(name+"'s mom"));
shared_ptr<Person> dad(new Person(name+"'s dad"));
    shared ptr<Person> kid(new Person(name));
    kid->setParentsAndTheirKids(mom, dad);
    return kid;
int main()
    shared ptr<Person> p = initFamily("nico");
```