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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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 */
#include <functional>
#include <algorithm>
#include <vector>
#include <iostream>
#include <string>
using namespace std;
using namespace std::placeholders;

class Person {
private:
    string name;
public:
    Person (const string& n) : name(n) {
    }
    void print () const {
        cout << name << endl;
    }
    void print2 (const string& prefix) const {
        cout << prefix << name << endl;
    }
    //...
};

int main()
{
    vector<Person> coll
        = { Person("Tick"), Person("Trick"), Person("Track") };

    // call member function print() for each person
    for_each (coll.begin(), coll.end(),
        bind(&Person::print, _1));
    cout << endl;

    // call member function print2() with additional argument for each person
    for_each (coll.begin(), coll.end(),
        bind(&Person::print2, _1, "Person: "));
    cout << endl;

    // call print2() for temporary Person
    bind(&Person::print2, _1, "This is: ") (Person("nico"));
}

```