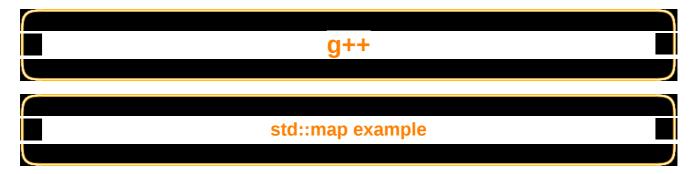Czech

g++

std::map example

06.05.30

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This example create opposite word std::map. In map are finding values or keys.

```cpp
// std::map example
// opposite words

#include <iostream>
#include <map>
#include <string>
using namespace std;

typedef std::map<std::string, std::string> TStrStrMap;
typedef std::pair<std::string, std::string> TStrStrPair;

int main(int argc, char *argv[])
{
        TStrStrMap tMap;

        tMap.insert(TStrStrPair( "yes", "no"));
        tMap.insert(TStrStrPair( "up", "down"));
        tMap.insert(TStrStrPair( "left", "right"));
        tMap.insert(TStrStrPair( "good", "bad"));

        std::string s;
        std::cout << "Enter word: " << std::endl;;
        std::cin >> s;


        std::string strValue = tMap[s];
        if(strValue!="")
        {
                // Show value
                std::cout << "Opposite: " << strValue << endl;
        }
        else
        {
                TStrStrMap::iterator p;
                bool bFound=false;
                // Show key
                for(p = tMap.begin(); p!=tMap.end(); ++p)
                {
                        std::string strKey;
                        strValue = s;
                        strKey= p->second;
                        if( strValue  == strKey)
                        {
                                // Return key
                                std::cout << "Opposite: " << p->first << std::endl;
                                bFound = true;
                        }
                }
```

```
                }
                // If not found opposite word
                if(!bFound)
                {
                        std::cout << "Word not in map." << std::endl;
                }
        }
        return 0;
}
```