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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 <random>
#include <iostream>
#include <sstream>
void printNumbers (std::default random engine& dre)
    for (int i=0; i<6; ++i) {
        std::cout << dre() << " ":
    std::cout << std::endl;</pre>
int main()
    // create engine and generate numbers
    std::default random engine dre;
    printNumbers(dre);
    // create equal engine and generate numbers
    std::default random engine dre2; // same initial state as dre
    printNumbers(dre2);
    // create engine with initial state specified by a seed
    std::default random engine dre3(42);
    printNumbers(dre3);
    // save state of engine dre
    std::stringstream engineState;
    engineState << dre;
    // generate numbers according to current state of dre
    printNumbers(dre);
    // restore saved state of engine dre and create numbers again
    engineState >> dre;
    printNumbers(dre);
    // restore saved state of engine dre, skip 2 numbers and create numbers
again
                            // clear EOF bit
    engineState.clear();
    engineState. seekg (0); // and move read position to the beginning
    engineState >> dre;
    dre. discard(2);
    printNumbers(dre);
```