```
1: // "Copyright 2020 <Greg Kaplowitz>"
 2: #ifndef FibLFSR_HPP
 3: #define FibLFSR_HPP
 4:
 5:
 6: #include <string>
 7: #include <iostream>
 8: #include <sstream>
 9: #include <cmath>
10: // using namespace sf;
11: using namespace std;
12:
13: class LFSR {
14: public:
15: LFSR(std::string Seed);// constructor
16: int step();// simulates one step
17: int generate(int k);// generates an integer of k bits of the processes
18: friend std::ostream& operator<< (std::ostream &out, const LFSR &lFSR);</pre>
19: private:
20: std::string seed;
21: }:
21:
      };
22: #endif
```