```
1: #ifndef LFSR_HPP
2: #define LFSR_HPP
3:
```

4: #include <iostream> 5: #include <string> 6:

7: class LFSR 8: { 9:

10: public: 11: LFSR(std::string user_seed, int user_tap);

12: ~LFSR(); 13: int step();

14: int generate(int k);

15: 16: friend std::ostream& operator<< (std::ostream &out, LFSR &lfsr);</pre>

17: 18: private:

19: std::string seed;
20: int tap;

21:

22: }; 23:

24: 25: #endif