

```
1: /*****
*****/
2: /* LFSR.hpp
   */
3: /* Yoo Min Cha
   */
4: /* Linear Feedback Shift Register
   */
5: /* Professor Martin
   */
6: /* 02 March 2014
   */
7: /*****
*****/
8:
9: #ifndef _LFSR_H
10: #define _LFSR_H
11:
12: #include <cstring>
13: #include <deque>
14: #include <iostream>
15: #include <cstdlib>
16:
17: class LFSR
18: {
19: private:
20:     int keyBit;
21:     std::string sequence;
22: public:
23:     LFSR(std::string seed, int t);
24:     int step();
25:     int generate(int k);
26:     std::string toString();
27:     int getKeyBit() const;
28:     friend std::ostream& operator << (std::ostream &out, const LFSR &cLFSR
);
29: };
30:
31: #endif
```