

```
1: #ifndef LFSR_HPP_
2: #define LFSR_HPP_
3:
4:
5: #include <iostream>
6: #include <string>
7: #include <vector>
8:
9: class LFSR {
10: public:
11:     LFSR(std::string seed, int tap);
12:     ~LFSR();
13:     friend std::ostream& operator<<(std::ostream& out, const LFSR& ri
ght);
14:     //string to_string();
15:     int step();
16:     int generate(int k);
17: private:
18:     std::vector<int> arr;
19:     int num;
20: };
21:
22: #endif
23:
```