

```
1: /*
2: Computing IV - Assignment - PS1a + b
3: Instructor: Prof. Yelena Rykalova
4: Due Date: 02/07/22
5: Author: Matthew Lorette Anaya
6: Description: This program is an implementation of a Fibonacci Linear Feed
back          Shift Register
7:          This is a header file with the FibLFSR class definition
8: */
9:
10: #include <iostream>
11:
12: class FibLFSR {
13:
14: public:
15:     FibLFSR(std::string seed);
16:
17:     int step();
18:
19:     int generate(int k);
20:
21:     friend std::ostream& operator<<(std::ostream& os, FibLFSR &lfsr);
22:
23: private:
24:     std::string reg;
25:
26:     int getBit(char a);
27:
28:     int xOr(int a, int b);
29:
30: };
31:
32:
```