

```
1: // Copyright 2022 Matthew Lorette Anaya
2: #ifndef RANDWRITER_H
3: #define RANDWRITER_H
4:
5: #include <iostream>
6: #include <string>
7: #include <map>
8: #include <exception>
9: #include <utility>
10: #include <random>
11:
12: class RandWriter {
13: private:
14:
15:     int rw_k;
16:     std::string rw_txt;
17:     std::map<std::string, std::map<char, int>> rw_table;
18:
19: public:
20:
21:     RandWriter(std::string text, int k);
22:
23:     int orderK() const;
24:     int freq(std::string kgram) const;
25:     int freq(std::string kgram, char c) const;
26:
27:     std::string getText() const;
28:     std::string generate(std::string kgram, int L) const;
29:
30:     std::map<std::string, std::map<char, int>> get_table() const;
31:
32:     char kRand(std::string kgram) const;
33:
34:     friend std::ostream& operator<<(std::ostream& out, const RandWriter&
35:     rw);
36:
37: };
38: #endif
```