```
1: #ifndef MARKOVMODEL HPP
     2: #define MARKOVMODEL HPP
     3: #include <string>
     4: #include <map>
     5:
     6: class MarkovModel{
     7: public:
     8:
                   MarkovModel(std::string text, int k);
                    ~MarkovModel();
     9:
    10:
                  int order();
               int order();
int freq(std::string kgram);
int freq(std::string kgram, char c);
char randk(std::string kgram);
std::string gen(std::string kgram, int T);
friend std::ostream& operator<<(std::ostream& out, MarkovModel& M</pre>
    11:
    12:
    13:
    14:
    15:
M);
    16:
    17: private:
    18: int Order;
    19:
                  std::string _text;
    20:
                  std::map <std::string, int> _kgrams;
    21:
                  std::string _alphabet;
    22: };
    23:
    24: #endif
```