```cpp
 1: #include <exception>
 2: #include <stdexcept>
 3: #include <iostream>
 4: #include <string>
 5: #include <stdlib.h>
 6: #include <ostream>
 7: #include <iterator>
 8: #include <istream>
 9: #include "MarkovModel.hpp"
10:
11: int main(int argc, char* argv[])
12: {
13:         if(argc < 2){
14:                 throw std::runtime_error("Not enough arguments");
15:         }
16:
17:         int k = atoi(argv[1]);
18:         int t = atoi(argv[2]);
19:         std::string kgram;
20:         std::cin >> std::noskipws;
21:         std::istream_iterator<char> it(std::cin);
22:         std::istream_iterator<char>end;
23:         std::string input(it,end);
24:
25:
26:
27:         MarkovModel mm(input, k);
28:
29:         std::cout << mm << std::endl;
30:         kgram = input.substr(0, k);
31:         std::string gen_text = mm.gen(kgram,t);
32:
33:         std::cout << "Original text: " << input << std::endl;
34:         std::cout << "Generated text: " << gen_text << std::endl;
35:
36:         return 0;
37: }
```