```
#include "MonteCarlo.h"
1
2
    #include <random>
3
    #include <limits>
4
    /*****************************
5
6
    Author: Jose Eduardo Morales
    MonteCarlo.cpp
7
    Date: march 22, 2023
8
    *************************
9
    MonteCarlo::MonteCarlo()
10
11
12
       srand(time(0));
13
    }
14
15
    Graph MonteCarlo::randomGraph(int edges, float density, int maxDistance) {
16
       Graph graph(edges);
17
       int row = 0;
18
       for(int i = 0; i < edges; i++){</pre>
           for (int j = 0; j < edges; j++) {</pre>
19
               if ((j > row) \&\& (rand()%100 < density * 100)){}
20
21
                  graph.add(i, j, 1 + rand()%maxDistance);
22
               }
23
           }
24
           row++;
25
26
27
       return graph;
28
  }
```