```
sierpinski.hpp
                     Wed Dec 07 12:05:30 2016
    1:
    2:
    3:
    4:
    5:
    6:
    7:
    8:
    9: #include <cmath>
   10: #include <SFML/Graphics.hpp>
   11: #include <SFML/Window.hpp>
   12:
   13: class Sierpinski : public sf::Drawable
   14: {
   15:
               public:
   16:
   17:
                       Sierpinski(int N, int size_tri);
   18:
   19:
                       void sierpinski(sf::ConvexShape mid_triangle, int recursion,
sf::RenderTarget& target) const;
   20:
                       sf::ConvexShape filledtriangle(sf::Vector2f left_tri, sf::Ve
   21:
ctor2f bottom_tri, sf::Vector2f right_tri,sf::RenderTarget& target) const;
   22:
                       //destructor;
   23:
                       ~Sierpinski();
   24:
   25:
               private:
                       sf::ConvexShape triangle;
   26:
   27:
   28:
                       int depth_;
   29:
                       int side_;
   30:
   31:
   32:
                       void virtual draw(sf::RenderTarget& target, sf::RenderStates
 states) const;
   33:
   34:
   35: };
```