```
1: #include "NBody.hpp"
    2:
    3:
    4: int main(int argc, char* argv[]){
    6:
           std::string store;//stores the input from the file
    7:
           std::string name;//name of planet
    8:
           int numberOfPlanets;
    9:
           float radius;//radius of window
   10:
   11:
           //stores the number of planets
   12:
           std::cin >> store;
   13:
           std::stringstream(store) >> numberOfPlanets;
   14:
   15:
           std::vector<Body> objects(numberOfPlanets);//vector of objects to store
all objects
   16:
           //stores the radius of the window
   17:
   18:
           std::cin >> store;
   19:
           std::stringstream(store) >> radius;
   20:
   21:
           //loop that stores all relevant data from the file
   22:
           for (int x = 0; x < numberOfPlanets; <math>x++)
   23:
               std::cin >> objects[x];
   24:
   25:
   26:
          //take the data inside the
   27:
           //vector of bodies and print it on the screen using SFML
   28:
           sf::RenderWindow window(sf::VideoMode(1000, 800), "Ps3a Universe");
   29:
   30:
           //display window
   31:
           while(window.isOpen()){
   32:
               sf::Event event;
   33:
               while(window.pollEvent(event)){
   34:
                   if(event.type == sf::Event::Closed)
   35:
                       window.close();
               }
   36:
   37:
               window.clear(sf::Color::Black);
   38:
               //display all the planets
   39:
               for(int i = 0; i < numberOfPlanets; i++){</pre>
   40:
                   window.draw(objects[i]);
   41:
   42:
               window.display();
           }
   43:
   44:
   45:
           return 0;
   46: }
```