

Bouncy Balls Specifications

Required Basics

1. Bouncy Ball is a GUI software.
2. At the start of the program, a medium side window will pop up.
3. The rectangle window represents the 'room'.
4. Gravity is involved.
5. Balls will bounce off each other and the walls.
6. User inputs with the mouse cursor.
7. A ball will move with the user's mouse and interact with other balls.
8. The output of the program will show on the GUI interface.
9. There is a settings panel where all the physical properties can be changed.
10. Balls enter the 'room' at the start with a random initial velocity.

Optional Additional Features

The optional additional features are ranked by fun-level (importance):

1. Invert gravity mode
2. Ball pit mode: tons of balls drop into the room.
3. Balls will change color when bounce.