

Diagram 1: A view is created when the user starts playing the game, creating a gamePlay (model) and controller which implements actionListener. The sequence of actions performed are shown in diagrams below. At the start, all buttons are enabled.

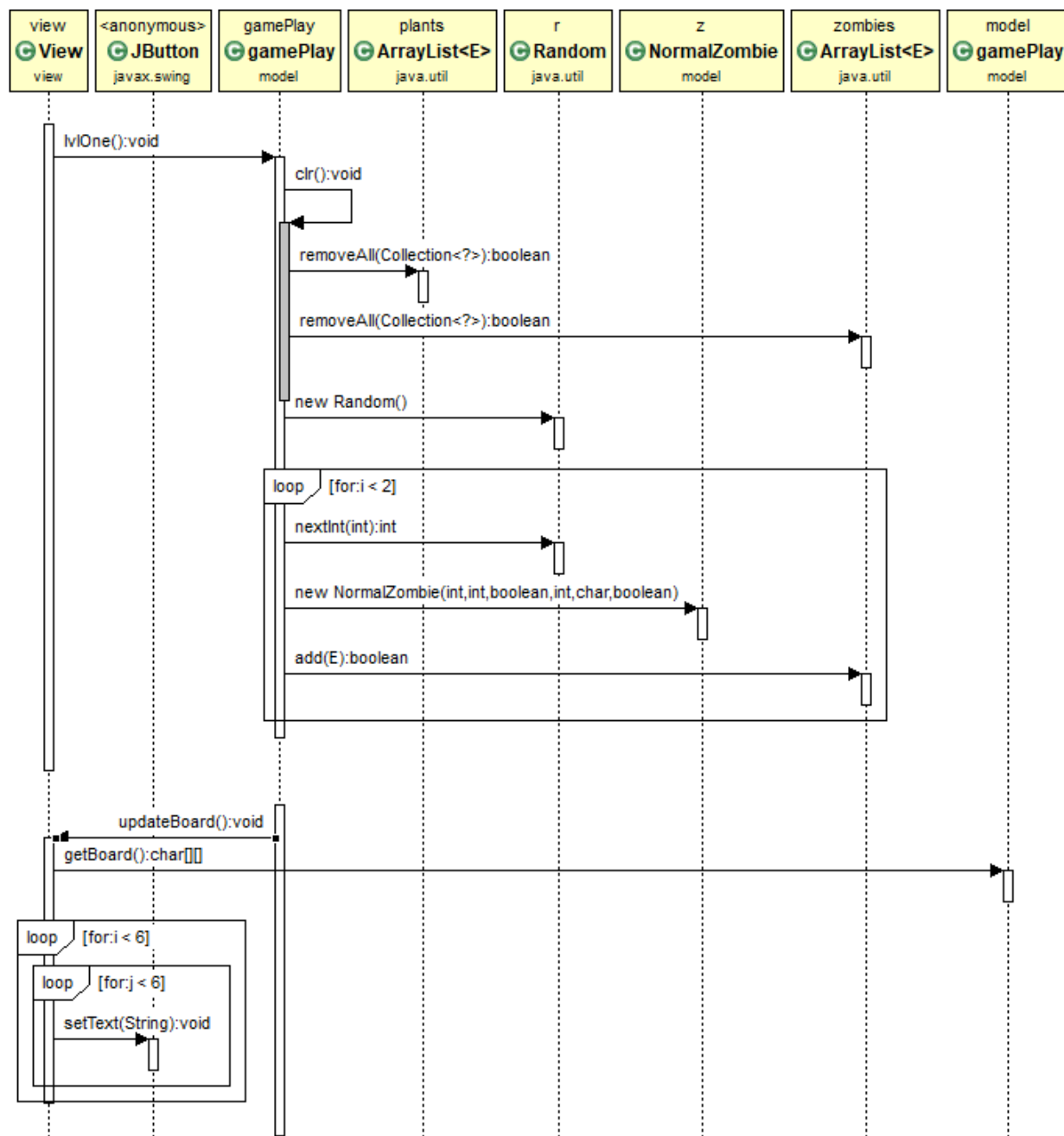


Diagram 2: A continuation from diagram 1 where the view interacts with the model in setting up level 1. The board is cleared (`clr` is called) and only normal zombies are present in this level. The board is then updated.

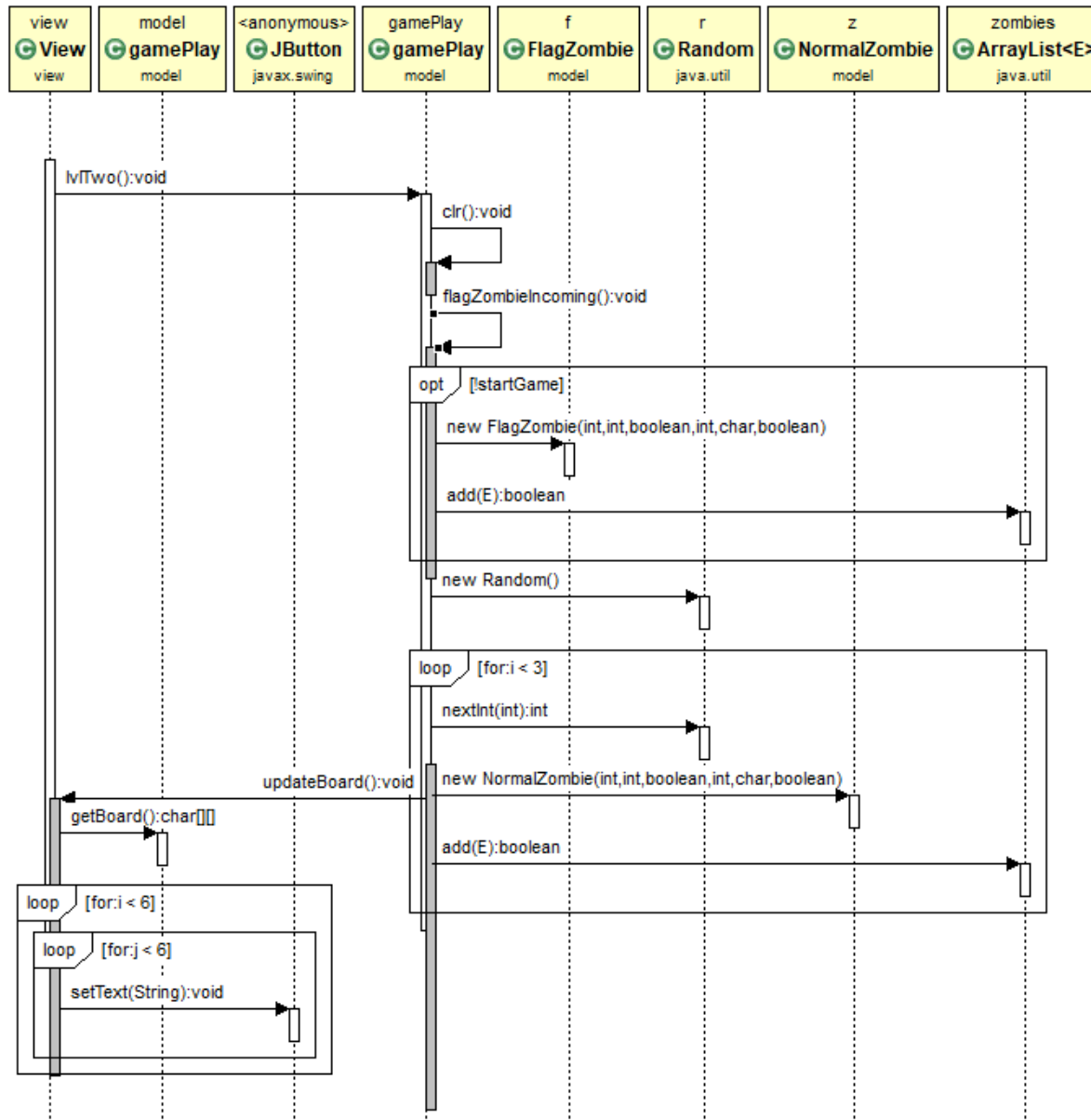


Diagram 3: A continuation from diagram 1 where the view interacts with the model in setting up level 2. The board is cleared (**clr** is called) and now flag zombies (**flagZombieIncoming** is invoked) as well as normal zombies are present in this level. The board is then updated.

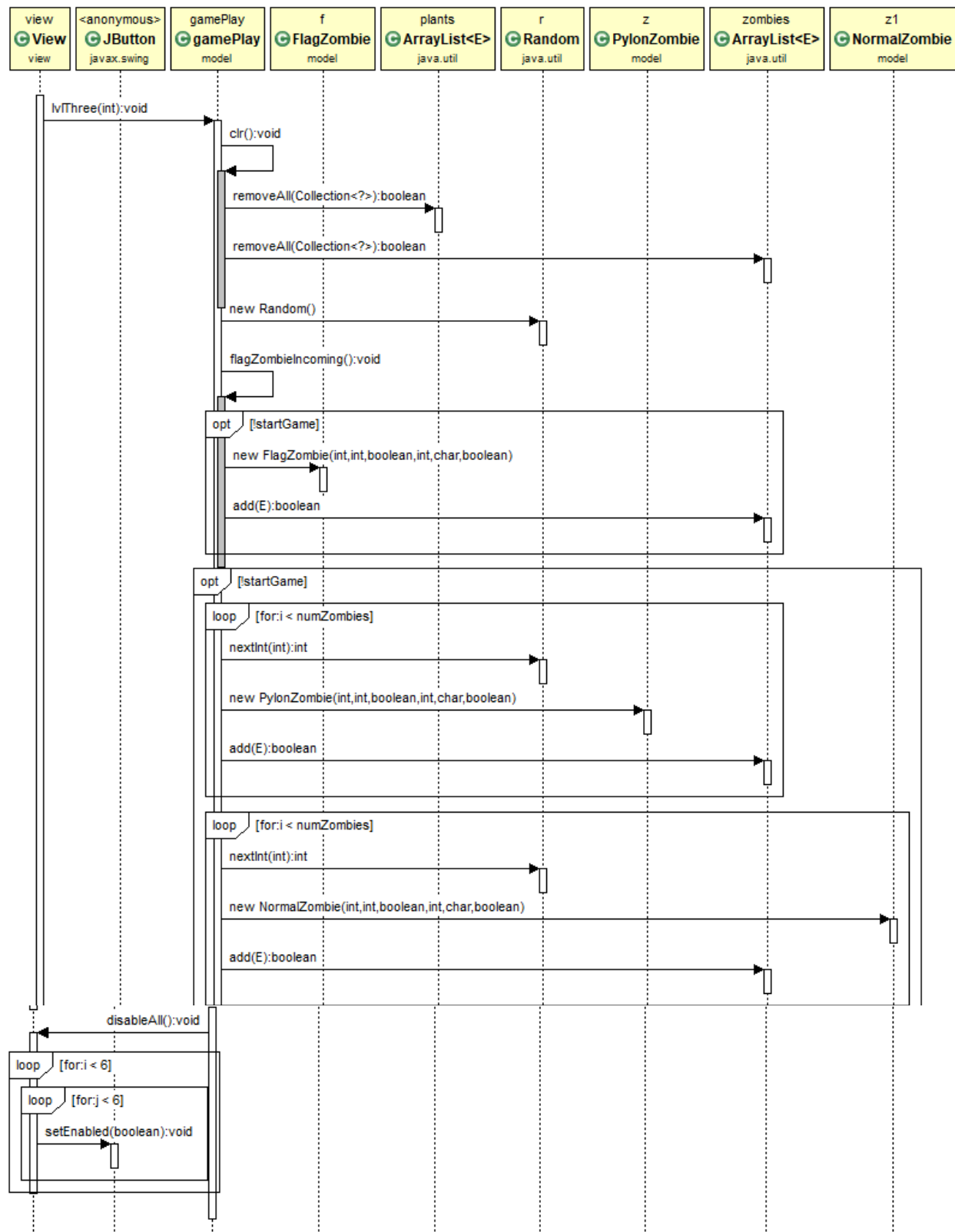
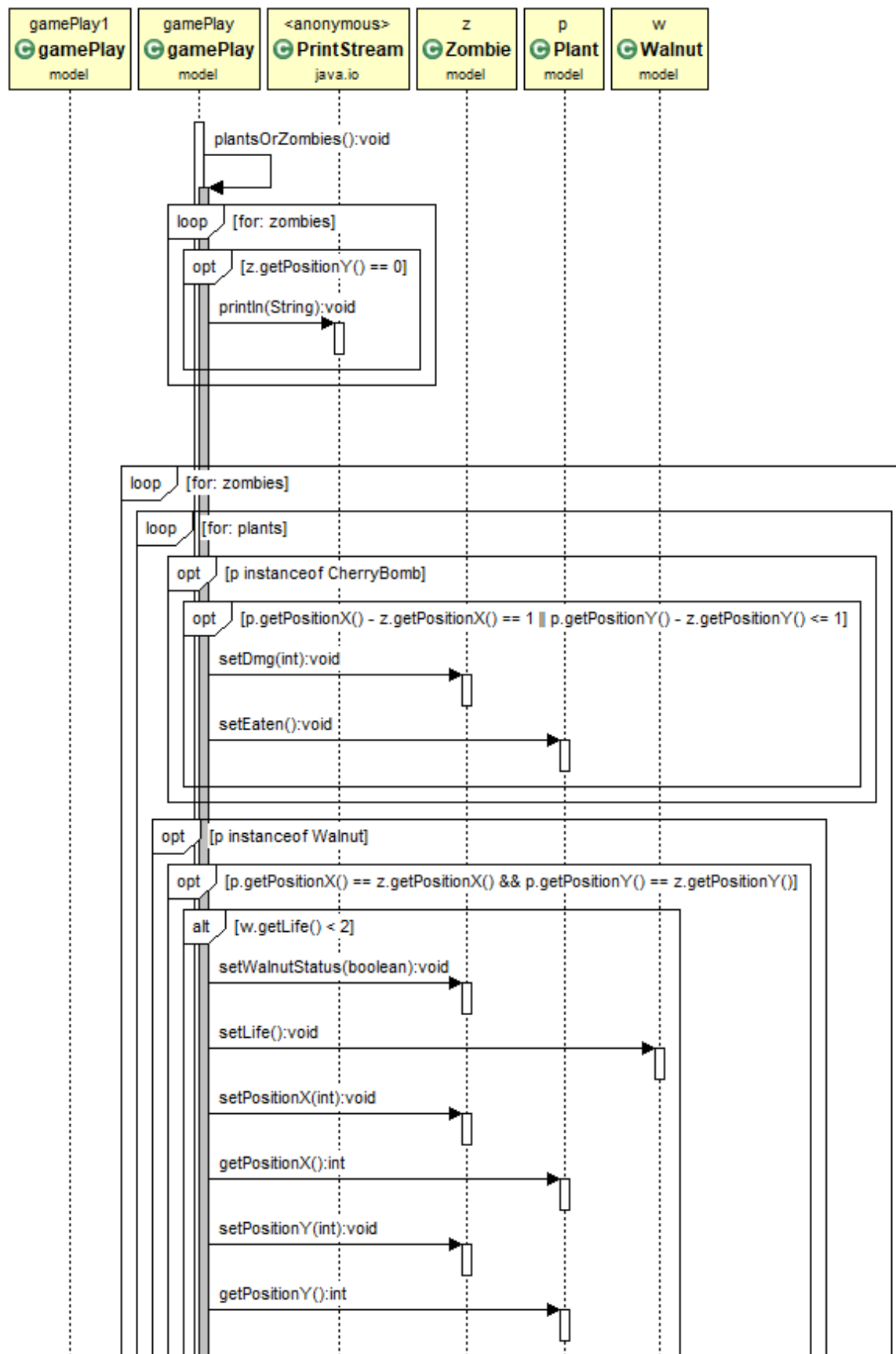


Diagram 4: A continuation from diagram 1 where the view interacts with the model in setting up level 3. The board is cleared (clr is called) and now pylon zombies as well as normal and flag zombies (flagZombieIncoming is invoked) are present in this level. The board is then updated.



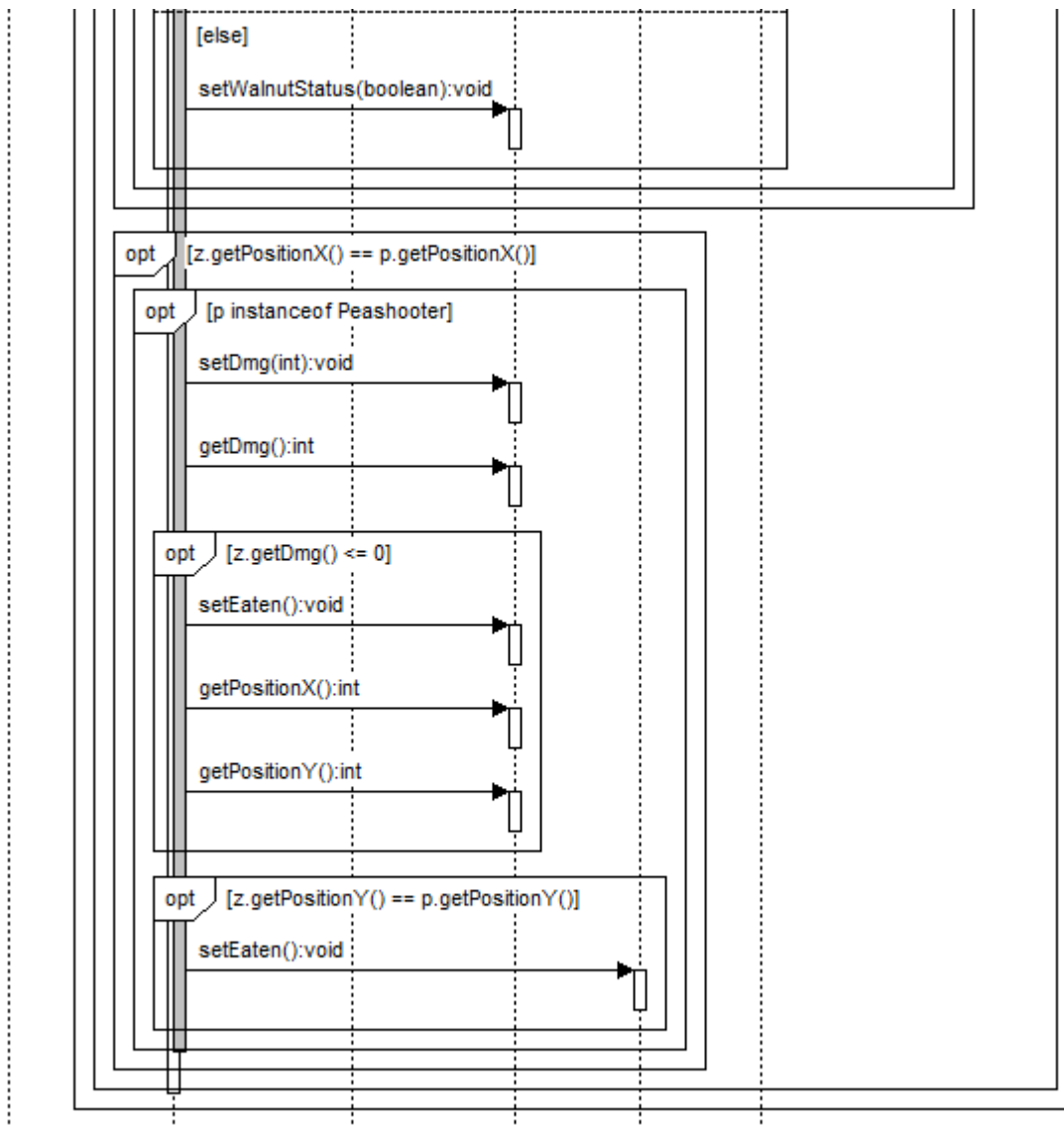


Diagram 5: This sequence diagram shows when `plantsOrZombies` method is called with the condition for each edge case. The edge cases are checking the positions of zombies in the game, the positions of plants in the game, the type of plant interacting and the level of damage points a zombie has.

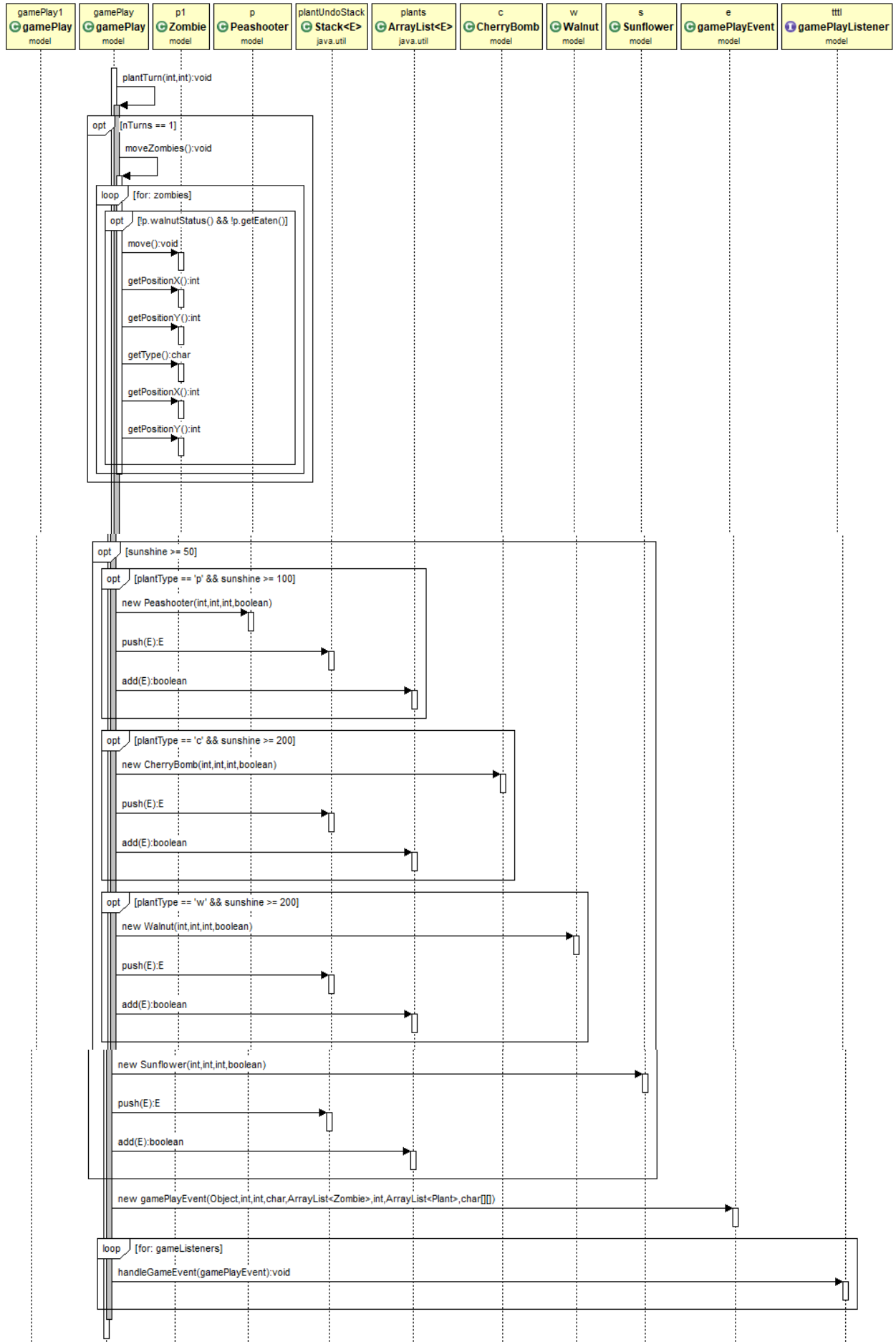


Diagram 6 (above): This sequence diagram shows when plantTurn method is called with the condition for each edge case. For each plant turn, the zombies move as well (moveZombie is called). The edge cases are checking the amount of sunshines in the bank and if the choses type of plant is affordable enough.

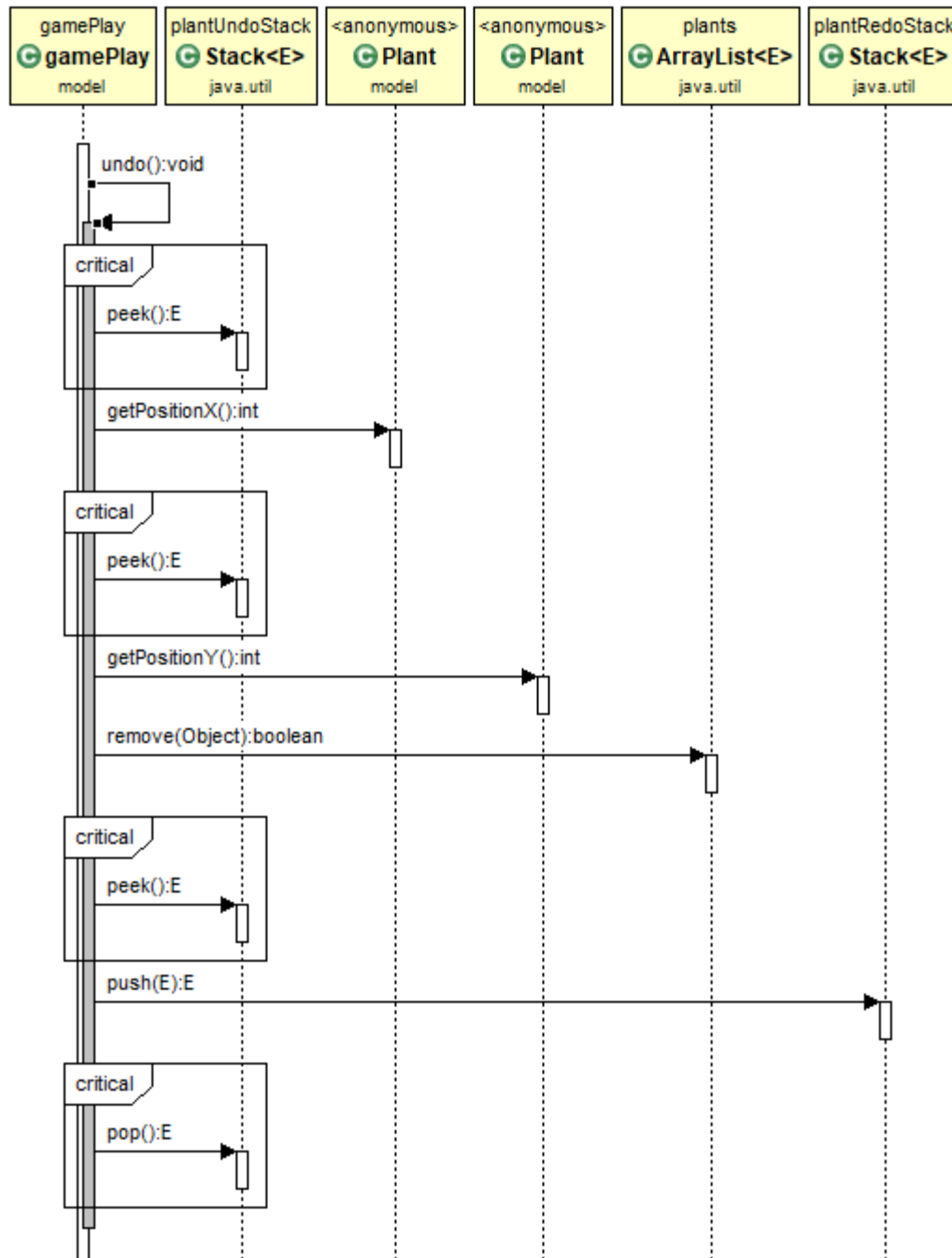


Diagram 7: This sequence diagram shows when undo method is called and the actions it performs, peeking into the stack, getting the top most plant/zombie and pushing back onto the board.

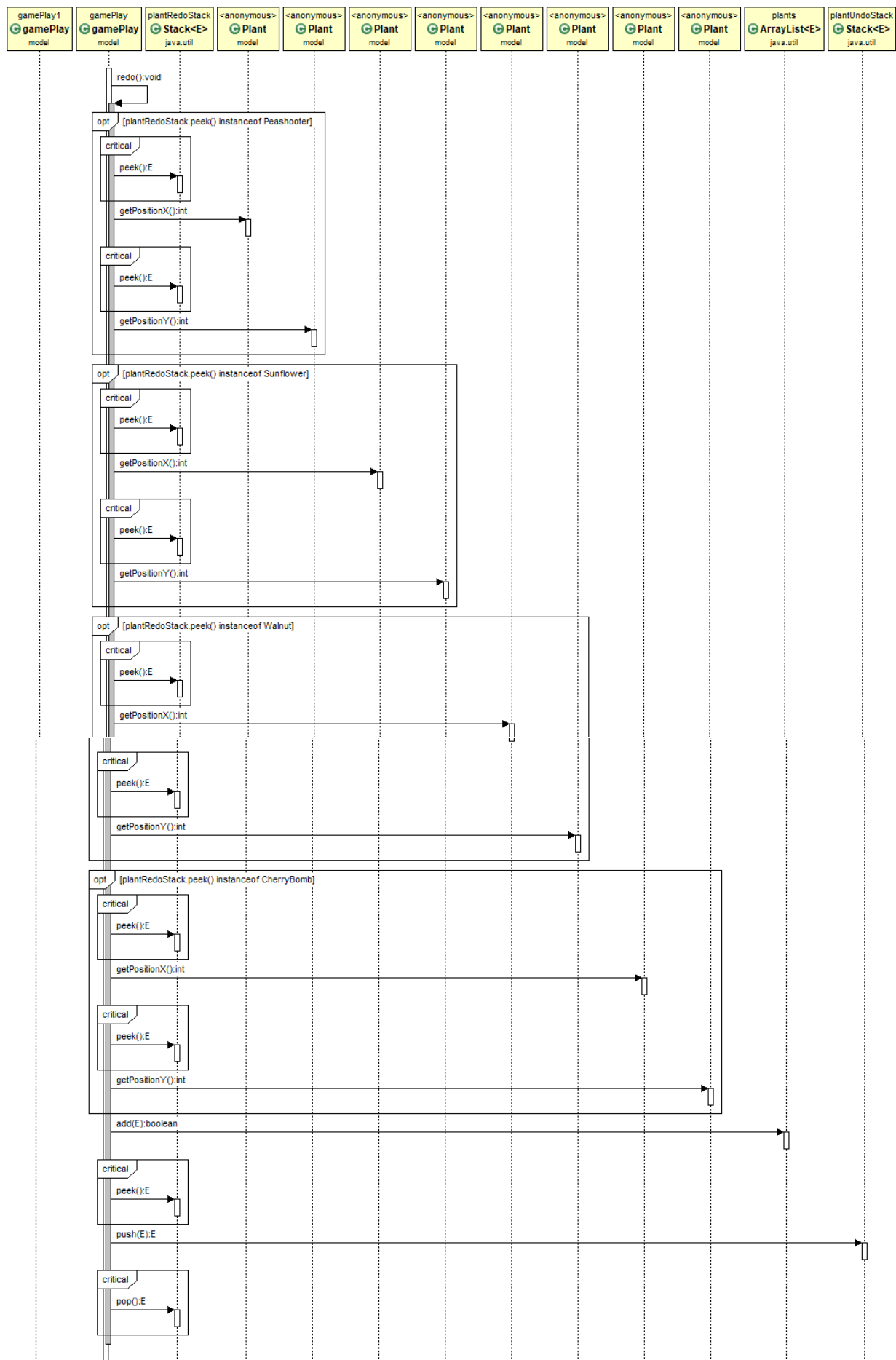


Diagram 8 (above): This sequence diagram shows when redo method is called and the actions it performs according to each edge case by looking into the stack and comparing with the type of plant at the top. The position of the plant/zombie is gotten and pushed out onto the board.

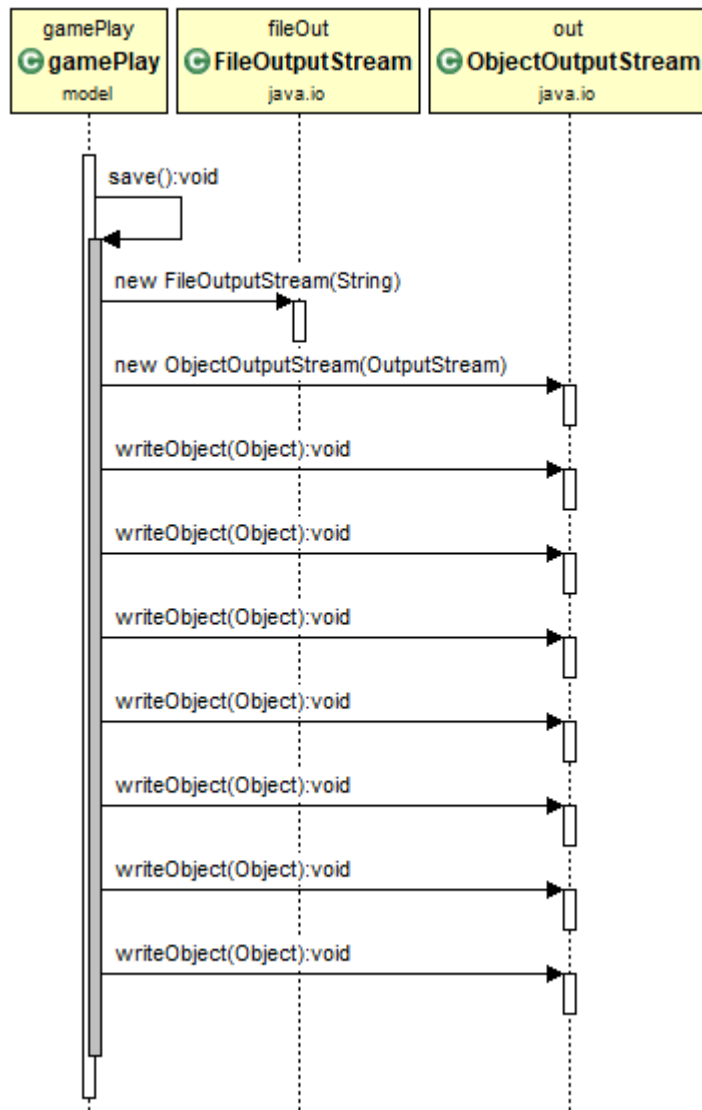


Diagram 9: This sequence diagram shows when save method is called by creating a new file output stream and writing to it.

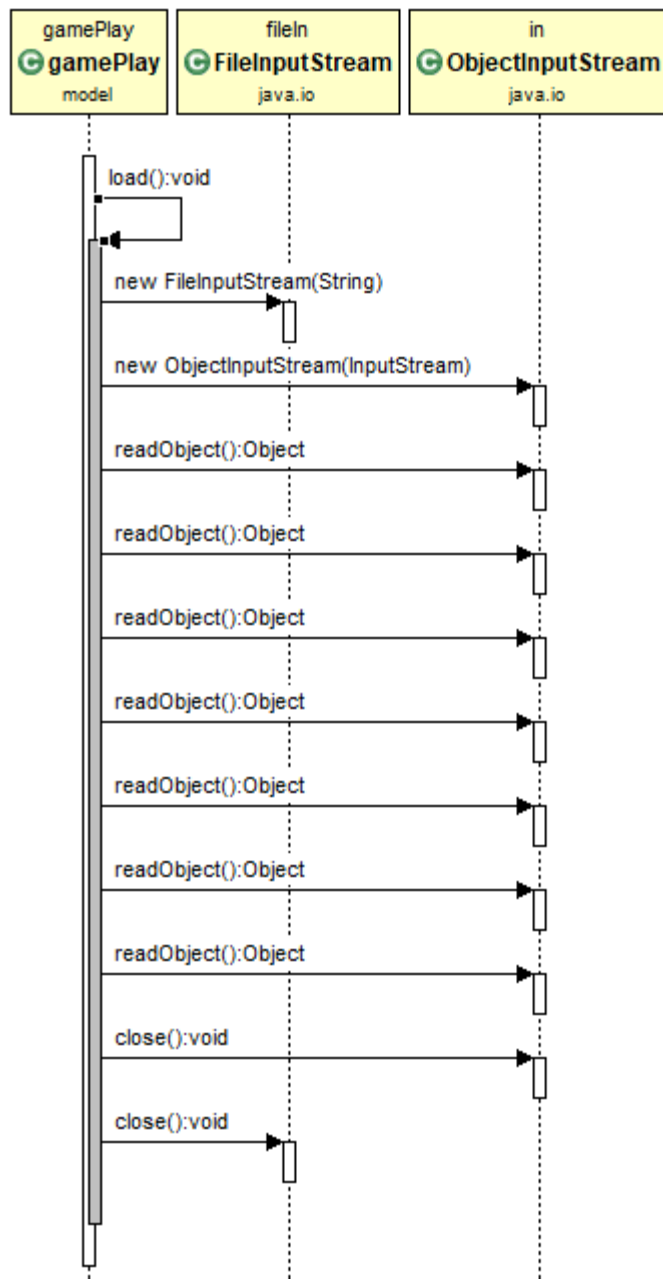


Diagram 10: This sequence diagram shows when load method is called by creating a new file input stream and reading from it.