

CS101

STAGE 1 PROJECT WORK

PROJECT NAME:CHAIN REACTION

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INTRODUCTION:

Chain reaction is a strategy game for two players. The objective of chain reaction is to take control of the board by eliminating opponent's orbs.

Whoever finally takes control over the board wins the game.

PROBLEM DEFINITION:

Players take it in turns to place their orbs in a cell. Once a cell has reached critical number of orbs, they explode into the surrounding cells adding an extra orb and claiming the cell for the player.

Players may only place their orbs in a blank cell or a cell that contains orbs of their own colour. As soon as a player loses all his orbs is out of the game.

USER MANUAL:

When the players open the game, a menu window appears in which two options-

1. PLAY , 2 . INSTRUCTIONS

will be displayed.

- ♦ The players can choose them by a mouseclick.
- ♦ When players click on “INSTRUCTIONS” a window appears displaying the rules of the game.
- ♦ Close the window to get back to the previous window.
- ♦ To start the game, click on “PLAY” .
- ♦ In this game each player tries to eliminate orbs of his opponent.

- ◆ Now a window appears displaying a 10x10 grid.
- ◆ The player who starts the game puts green orbs and the other puts blue orbs.
- ◆ Each player can put the orbs in a blank cell or in a cell containing orbs of his colour by clicking on the desired cell.
- ◆ As the game proceeds, whenever a cell contains a specific number of orbs of some colour, the cell gets emptied adding an extra orb to the surrounding cell and claiming the cell for that player.
- ◆ The player whoever completely eliminates the orbs of his opponent wins the game.
- ◆ When the game ends, a window opens displaying the winner and his score.
- ◆ Final score is calculated based on the number of leftover orbs of the winner.