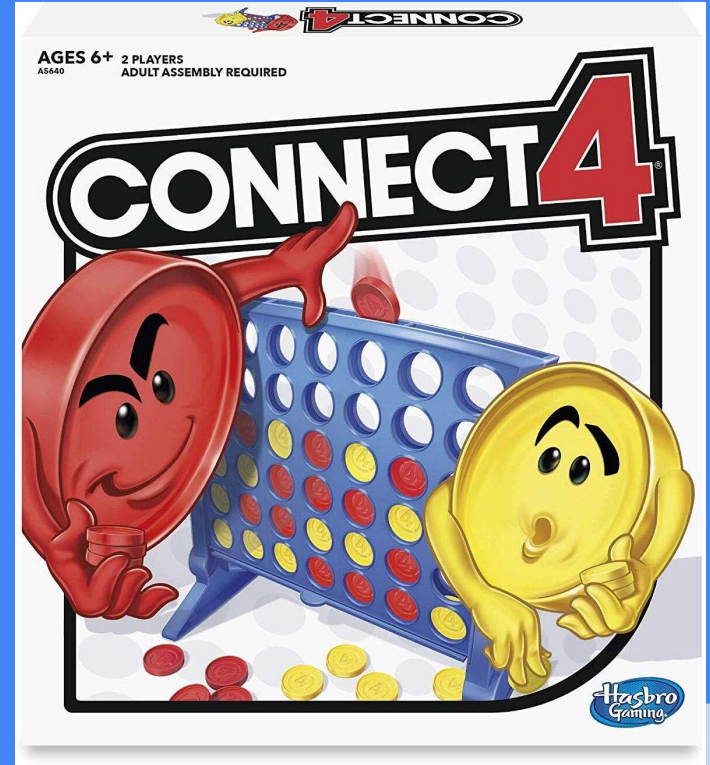


# Connect 4

Abhinav B, Kevin C, Arnav S, Vansh G



# Overview and Explanation

- ❑ Connect 4 is a two player connection game
- ❑ Players take turns dropping one colored disc from the top into a 7x6 grid.
- ❑ The pieces fall straight down, occupying the lowest available space within the column.
- ❑ The objective of the game is to be the first to form a horizontal, vertical, or diagonal line of four of one's own discs.
- ❑ Our code will create a board and ask for two players. These players will be asked what column to drop disc in and that space will be marked by an X or O

	1	2	3	4	5	6	7

	1	2	3	4	5	6	7
				X		O	
				O	X	X	X
			X	X	O	O	O
		X	X	O	O	X	O

# Functions we used

- 2D Arrays to create the game board
- Nested For Loops
- If Statements
- Boolean Variables to determine if valid move/open space

# Demonstration of Code

# Challenges

- **Collaboration** - Our dynamic team had diverse skill sets that we strategically streamlined for each role
- **Bugs** - We ran into numerous bugs when developing the back-end as well as the front-end of the game
- **Code** - diagonal checking was the hardest element to code
- **Confusion**: We created many variables so it was difficult to keep track of which is which
- **Nested Code**: Readability was slightly difficult with for loops and if statements nested inside an existing while loop.

# Possible Enhancements

- Add CPU option if individual wants to play computer
- Better and more interactive interface
- Improve graphics
- Adding Replay Feature

Thank You for Listening