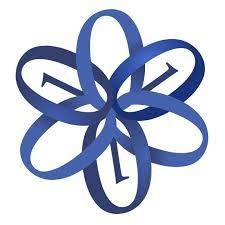
**Scale Focus Game Project**

**The Bletchey code breakers**

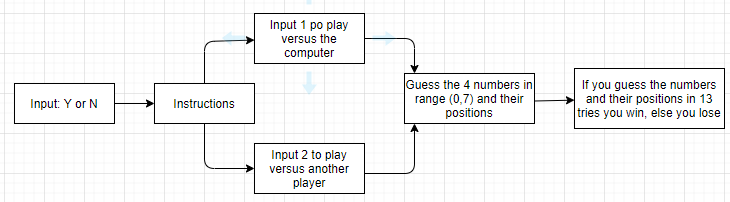


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# Description of the project

Our aim is to implement a game where you will guess the coordinates of a German battleship. The Germans place a combination of 4 random numbers in the range between 0 and 7, indicating the coordinates of their battleships. You should guess the coordinates within 13 tries. No second chances! The game will allow two players to play against each other and to play versus the computer.

# Diagram of the project



# The functions and how they work

|  |  |  |
| --- | --- | --- |
| **Functions** | **Description of the function** | **Return value of the function** |
| void initialize() | It generates a random number. | This function doesn’t return value because it is of type void. |
| int generateRandomNumberInRange() | This function generates random numbers in range from 0 to 7. | Integer because the function is type of int. |
| vector<int> generateDistinctRandomNumbersInRange() | Generates numbers from 0 to 7 one time. | Returns a pointer to vector in the range. |
| int guessedNumbers() | This function shows how many guessed numbers you have. | Integer because the function is type of int. |
| int guessedNumbersAndPositions() | This function shows how many guessed numbers with positions you have. | Integer because the function is type of int. |
| vector<int> generateRandomNumbersInRange() | The function composes the range from 0 to 7. | Returns a pointer to vector in the range. |
| vector <int> enterPlayerNumbers() | That function is about when you play versus another player are you inputting or guessing the numbers. | Returns a pointer to vector in the range. |
| void playTask() | The function that allows you to play our tasks in the game. | This function doesn’t return value because it is of type void. |
| Int main() | The menu of the game is there, the instruction and the tasks and levels in the game. In short, all the things in the game. | It returns your result after the game is done by integer way. |