



Project Documentation Task 1

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Introduction:

Simultaneous QUATRO-UNO is a Python implementation of a strategic card game where two players compete to outmaneuver each other. The game is designed with a graphical user interface (GUI) using the Tkinter library. It allows players to make selections, play the game, and view the results.

Game Rules:

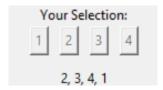
- Each player receives four cards: "1", "2", "3", and "4".
- Players take turns revealing their leftmost card.
- The lower card is discarded, and the higher card remains.
- If both cards are identical, they are removed from play.
- Exception: If one card is a "1" and the other a "4", both cards are discarded.
- The player who empties their pile first loses the game.

Steps:

> Select your cards.

- The program window will display four buttons labeled with the card values "1", "2", "3", and "4". These buttons represent the cards available for you to choose from.
- Click on the buttons corresponding to the four cards you want to play in your secret selection.





➤ Game play.

- Upon clicking "Start Game," the program will perform the following actions:
- o It will randomly select four cards from the available deck ("1", "2", "3", and "4") to represent the computer's secret selection.
- o The program will reveal the computer's chosen cards on the screen.



➤ Game loop (automatic).

- The program will enter a loop that automatically resolves the round based on the chosen cards:
- The first card from your selection and the first card from the computer's selection will be compared.
- There are four possibilities:
- o If your card has a lower value than the computer's card, the computer wins two cards from your pile.
- o In the special case of "1" vs "4", both cards are removed from the piles
- o The loop repeats, comparing the next cards from each pile until:
- One player's pile is empty (that player loses).
- o Both players' piles are empty (a draw).

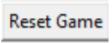
Game Over.

Once the game loop determines a winner (or a draw), a message box will pop up on the screen. The message will indicate:

- o "Player wins" if you emptied the computer's pile first.
- o "Computer wins" if the computer emptied your pile first.
- o "DRAW" if both players' piles are empty



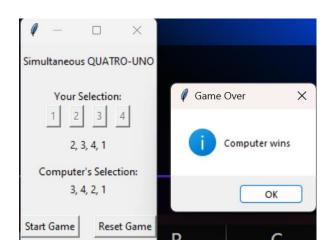
- Reset the game (optional).
 - The program window might provide a button labeled "Reset Game." Clicking this button will clear your previous selections and the computer's cards, allowing you to start a new round.

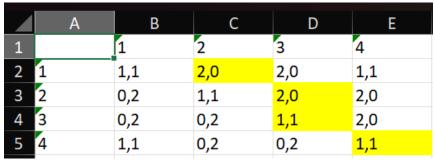


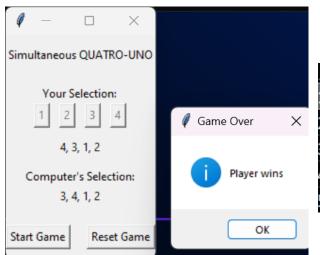
Screenshots for trying:



	А	В	С	D	Е
1		1	2	3	4
2	1	1,1	2,0	2,0	1,1
3	2	0,2	1,1	2,0	2,0
4	3	0,2	0,2	1,1	2,0
5	4	1,1	0,2	0,2	1,1
6					







4	Α	В	С	D	Е
1		1	2	3	4
2	1	1,1	2,0	2,0	1,1
3	2	0,2	1,1	2,0	2,0
4	3	0,2	0,2	1,1	2,0
5	4	1,1	0,2	0,2	1,1