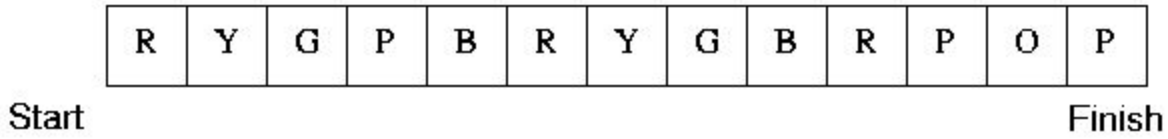
Problem: Create a Django app for the following game:

Description: A simple matching game uses a board that is a sequence of colored squares. Each player has a game piece. Players alternate turns, drawing cards containing either one colored square or two colored squares of the same color. Players move their pieces forward on the board to the next square that matches the single color on the card or forward to the second matching square if the card contains two colored squares, or forward to the last square on the board if there is no square matching the description above. A player wins if his piece lands on the last square of the board. It is possible for all the cards to be drawn and still not have a winner.

This problem represents colors with capital letters from A-Z. Below is a diagram of a sample board.




Consider the deck of cards: R, B, GG, Y, P, B, P, RR

For 3 players, the game proceeds as follows:
Player 1 draws R, moves to 1st square
Player 2 draws B, moves to 5th square
Player 3 draws GG, moves to 8th square
Player 1 draws Y, moves to 2nd square
Player 2 draws P, moves to 11th square
Player 3 draws B, moves to 9th square
Player 1 draws P, moves to 4th square
Player 2 draws RR, Wins! (no R in front of piece so it goes to last square)

Using the same board and the same deck of cards, but with 2 players, Player 1 wins after 7 cards. With 4 players, no one wins after exhausting the deck of 8 cards.

Input:
Input consists of information for a game. This includes the following:

1. The number of players (1-4)
2. The number of squares on the board (1-79)
3. The number of cards in the deck (1-200).
4. The characters representing the colored squares on the board (as a string).
5. The cards in the deck (as a comma separated string).

Output:
For each game, the output is either the winning player and the total number of cards drawn, or the number of cards in the deck, as shown in the sample output below.

Sample Input 1:
Number of Players: 2
Number of Squares on the board: 13
Number of Cards in the deck: 8
Sequence of characters on the board: RYGPBRYGBRPOP
Cards in the deck: R, B, GG, Y, P, B, P, RR

Sample Output 1:
Player 1 won after 7 cards.

Sample Input 2:
Number of Players: 2
Number of Squares on the board: 6
Number of Cards in the deck: 5
Sequence of characters on the board: RYGRYB
Cards in the deck: R, YY, G, G, B

Sample Output 2:
Player 2 won after 4 cards.

Sample Input 3:
Number of Players: 3
Number of Squares on the board: 9
Number of Cards in the deck: 6
Sequence of characters on the board: QQQQQQQQQ
Cards in the deck: Q, QQ, Q, Q, QQ, Q

Sample Output 3:
No player won after 6 cards.

Look at the sample input and output files carefully. Your program must print the output in the exact same format. A Django form should be created to received the input parameters and display the result in response. Game results should be saved to the database.

Test Inputs:

Number of Players: 4
Number of Squares on the board: 13
Number of Cards in the deck: 8
Sequence of characters on the board: RYGPBRYGBRPOP
Cards in the deck: R, B, GG, Y, P, B, P, RR

Number of Players: 2
Number of Squares on the board: 6
Number of Cards in the deck: 5
Sequence of characters on the board: RYGRYB
R, YY, G, G, B

Number of Players: 3
Number of Squares on the board: 9
Number of Cards in the deck: 6
Sequence of characters on the board: QQQQQQQQQ
Cards in the deck: Q, QQ, Q, Q, QQ, Q

Number of Players: 3
Number of Squares on the board: 79
Number of Cards in the deck: 10
Sequence of characaters on the board:
ABCDEFGHIJKLMNOPQRSTUVWXYABCDEFGHIJKLMNOPQRSTUVWXYABCDEFGHIJKLM
NOPQRSTUVWXYABCD
Cards in the deck: D, BB, CC, E, A, BB, EE, DD, CC, AA

Number of Players: 1
Number of Squares on the board: 10
Number of Cards in the deck: 5
Sequence of characters on the board: ABCDEABCDE
Cards in the deck: A, B, A, BB, E

Number of Players: 4
Number of Squares on the board: 1
Number of Cards in the deck: 1
Sequence of characters on the board: Z
Cards in the deck: X

Number of Players: 4
Number of Squares: 79
Number of Cards in the deck: 200
Sequence of characters on the board:
ABCDEFGHIJKLMNOPQRSTUVWXYABCDEFGHIJKLMNOPQRSTUVWXYABCDEFGHIJKLMNOPQRSTUVWXYABCD
Cards in the deck: A, A, A, A, B, B, B, B, C, C, C, C, D, D, D, D, E, E, E, E, F, F, F, F, G, G, G, G, H, H, H, H, I, I, I, I, J, J, J, J, K, K, K, K, L, L, L, L, M, M, M, M, N, N, N, N, O, O, O, O, P, P, P, P, Q, Q, Q, Q, R, R, R ,R, S, S, S, S, T, T, T, T, U, U, U, U, V, V, V, V, W, W, W, W, X, X, X, X, Y, Y, Y, Y, A, A, A, A, B, B, B, B, C, C, C, C, D, D, D, D, E, E, E, E, F, F, F, F, G, G, G, G, H, H, H, H, I, I,  I, I, J, J, J, J, K, K, K, K, L, L, L, L, M, M, M, M, N, N, N, N, O, O, O, O, P, P, P, P, Q, Q, Q, Q, R, R, R, R, S, S, S, S, T, T, T, T, U, U, U, U, V, V, V, V, W, W, W, W, X, X, X, X, Y, Y, Y, Y

Number of Players: 4
Number of Squares: 79
Number of Cards in the deck: 100
Sequence of characters on the board:
ABCDEFGHIJKLMNOPQRSTUVWXYABCDEFGHIJKLMNOPQRSTUVWXYABCDEFGHIJKLMNOPQRSTUVWXYABCD
Cards in the deck: A, A, A, A, B, B, B, B, C, C, C, C, D, D, D, D, E, E, E, E, F, F, F, F, G, G, G, G, H, H, H, H, I, I, I, I, J, J, J, J, K, K, K, K, L, L, L, L, M, M, M, M, N, N, N, N, O, O, O, O, P, P, P, P,  Q, Q, Q, Q, R, R, R, R, S, S, S, S, T, T, T, T, U, U, U, U, V, V, V, V, W, W, W, W, X, X, X, X, Y, Y, Y, Z