## ECON4002 Popup quiz Spring 2024

## Write your name in the blank sheet.

## Instructions

- 1. When everyone is ready to start, I will scroll down to the next page.
- 2. You cannot consult any materials.
- 3. You can write your answer either in English or in Korean.
- 4. You have 10 minutes to submit your answer.

Quiz on Nov 14 Consider the game below:

P1 \ P2	Left	Right
Up	2, 3	0, 0
Down	0, 0	X, 2

, where X is a number greater than 1.

- (a) Find a mixed strategy Nash equilibrium where P1 plays U with probability  $p \in (0,1)$  and P2 plays L with probability  $q \in (0,1)$ .
- (b) In the mixed-strategy Nash equilibrium you found in (a), how do p and q change as X increases?