## CS314 Operating System Spring 2024 Exercise Questions on February 13th

## **EXERCISE #1**

Is the following request safe? If yes, explain why. If not, explain why not.

**Note:** the correct "yes" or "no", but based on a wrong explanation will not earn much credit for this question.

- (a) If Process B requests 4 more instances of the resource.
- (b) If Process C requests 2 more instance of the resource <u>after (a)</u>.

Process	Assigned	MAX. Need	Requests Pending	Process Status
A	4	14	0	RUNNING
В	2	7	0	RUNNING
С	2	5	0	RUNNING

Available 6

## EXERCISE #2

Assume the following situation, if Process C requests one more additional resource, and if we approve the request, is it in the safe state?

Processes	Assigned	Max. Needs
A	10	15
В	4	6
С	9	11

3
Available