## CSE 331 MIDTERM – FALL 2020

0. ☆ ② :

## 1. (Computers and Performance) (25min)

a. (5pts) What is the CPI assuming the percentages of instruction types in the program?

Instr. Type	# of cycles	percentage in the program
Class A	3 cycles	38%
Class B	5 cycles	42%
Class C	2 cycles	20%

- b. (8pts) Assume that we can implement all Class B instructions using two Class C instructio What is the new CPI?
- c. (12pts) Compare the execution times of part a and b. Show computations to find which c faster and by how much?



