

Classwork 07 CPE221 Computer Organization  
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Spring 2025, VAH

Student's Name: \_\_\_\_\_

① Write equivalent ARM assembly program for the following:

```
if (a > b || b > c)
{
    d = 1;
}
else
{
    d = 0;
}
```

(10 points)

②

Write an assembly program using ARM to compute a factorial of 5. (10 points)

- ③ Write an ARM assembly program to add two numbers, only if the carry flag is clear (i.e.  $C=0$ ). Then if the addition overflows, set  $R3=1$ . (5 points)