

## COSC 6351: Advance Computer Architecture

### Quiz 4

Based on the example in our previous class, please complete the following register renaming given available PRF {A, B, C, D, E, F, G, H, I, J, K, L, M, N} (Hint: maintain an updated RAT for each renaming.)

R1 = R2 + R3	=	+
R2 = R2 + R1	=	+
R1 = R1 * R2	=	*
R2 = R1 + R3	=	+
R3 = R1 >> 1	=	>> 1
BNEZ R3, top	BNEZ	, top
R1 = R2 + R3	=	+
R2 = R2 + R1	=	+
R1 = R1 * R2	=	*
R2 = R1 + R3	=	+
R3 = R1 >> 1	=	>> 1
BNEZ R3, top	BNEZ	, top