## Group 2: Closure

Name			
	Computing ID		_

## **Directions:**

- Assemble into groups of approximately 4.
- Each person in each group should have their own paper.
- Put your name and computing id at the top of this page.
- Go to  $https://www.cs.virginia.edu/\sim njb2b/cs2120/f2022/group2.html$  (or scan the QR code or follow the link on the course schedule page) and follow the guide there.
- Each person should turn in their paper when finished (or class ends)



Problem 1: Identify $T$				
T =				
Problem 2: Identify P				
<i>P</i> =				

Problem 3: Circle the properties that P has

Reflexive Irreflexive Symmetric Asymmetric Antisymmetric Transitive

Problem 4: Reflexive Closure of P							
Problem 5: Symmetric Closure of $P$							
Froblem 5: Symmetric Closure of F							
Problem 6: Transitive Closure of P							
Problem 7: Missing Reflexive Pairs  Problem 9: Missing Symmetric Pairs							
Problem 8: Add employees to make it Reflexive							
	VT 2020						
JMU 1992	VT 2022	VCU 2011					
ODU 2000	VCU 1980	VCU 2019					
VCU 1996	JMU 1999	JMU 2009					
Apple	Meta	Alphabet	Netflix				
Problem 10: Add employees to make it Symmetric							
	WITH AGOO						
JMU 1992	VT 2020	VCU 2011					
ODU 2000	VT 2022 VCU 1980	VCU 2011 VCU 2019					
VCU 1996	JMU 1999	JMU 2009					
Apple	Meta	Alphabet	Netflix				
Problem 11: Add employees to make it Transitive							
JMU 2000	ODU 1990	VT 2002	UVA 2015				
ODU 2010	VT 2000	UVA 2011	VCU 2019				
Microsoft	Intel	Amazon	Ford				