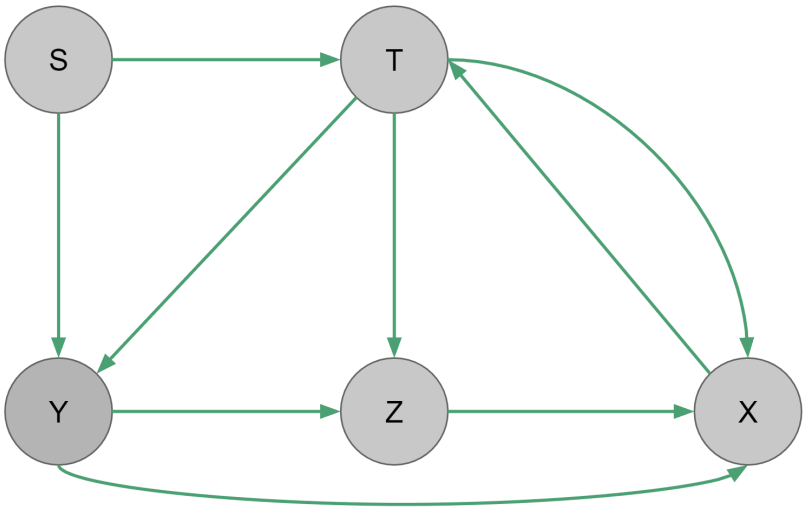
CSE 332: Data Structures and Parallelism

Section 6: Graphs

0. Simulating BFS

Do a BFS traversal of this graph starting at node S. What is the resulting tree?



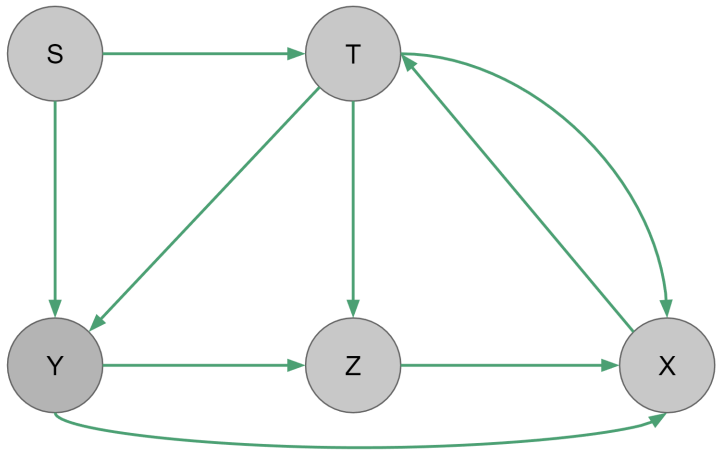
Vertex	Predecessor	Visited?
S		
T		
X		
Y		
Z		

Queue:

Resulting Nodes Taken:

1. Simulating DFS

Do a DFS traversal of this graph starting at node S

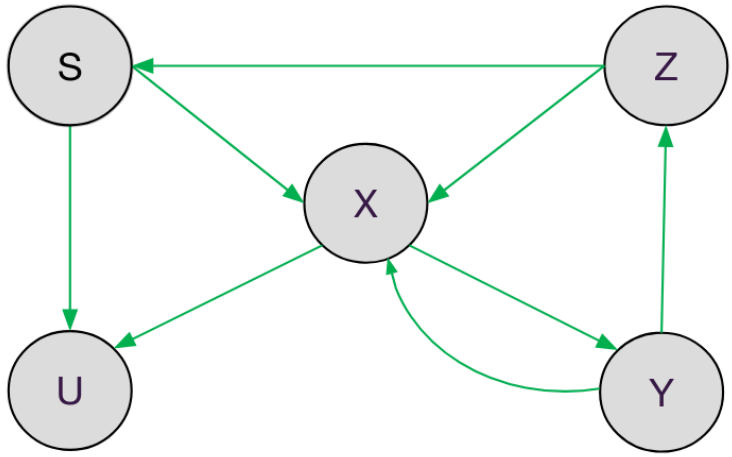


Vertex	Visited?	Done?
S		
T		
X		
Y		
Z		

Stack frame:

2. Detecting Cycles

Do a DFS traversal of this graph starting at node S. Nodes are visited in alphabetical order if multiple neighbors are available.



Vertex	Visited?	Done?	Cycles Detected At Vertex
S			
U			
X			
Y			
Z			

Stack frame: