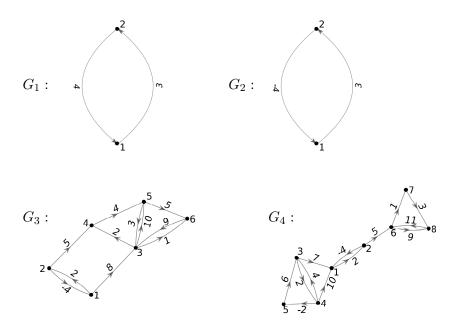
MATH.APP.270 Algorithms for graphs

Programming assignment 2: graphs for testing

2022

The graphs that you should use for testing your code are presented here:



The following table contains the input files for these graphs:

$_{ m graph}$	Python input file	Matlab input file
G_1	GO1PythonFW.txt	G01MatlabFW.m
G_2	${ t GO2PythonFW.txt}$	GO2MatlabFW.m
G_3	${\tt GO3PythonFW.txt}$	GO3MatlabFW.m
G_4	${\tt GO4PythonFW.txt}$	${\tt GO4MatlabFW.m}$

The Path matrix for each of these graphs is given as follows:

$$G_{1}: \begin{bmatrix} \langle 1 \rangle & \langle 1, 2 \rangle \\ \langle 2, 1 \rangle & \langle 2 \rangle \end{bmatrix} \qquad G_{2}: \begin{bmatrix} \langle \rangle & \langle \rangle \\ \langle \rangle & \langle \rangle \end{bmatrix}$$

$$G_{3}: \begin{bmatrix} \langle \rangle & \langle \rangle \\ \langle \rangle & \langle \rangle \\ \langle \rangle & \langle \rangle & \langle 3 \rangle & \langle 3, 4 \rangle & \langle 3, 4, 5 \rangle & \langle 3, 6 \rangle \\ \langle \rangle & \langle \rangle & \langle 4, 5, 3 \rangle & \langle 4 \rangle & \langle 4, 5 \rangle & \langle 4, 5, 3, 6 \rangle \\ \langle \rangle & \langle \rangle & \langle 5, 3 \rangle & \langle 5, 3, 4 \rangle & \langle 5 \rangle & \langle 5, 3, 6 \rangle \\ \langle \rangle & \langle \rangle & \langle 6, 3 \rangle & \langle 6, 3, 4 \rangle & \langle 6, 3, 4, 5 \rangle & \langle 6 \rangle \end{bmatrix}$$

G_4 :	$\left[\begin{array}{c} \langle \rangle \\ \langle \rangle \end{array} \right]$	$\langle \rangle$	$\langle \rangle$ $\langle \rangle$	$\langle \rangle$ $\langle \rangle$	$\langle \rangle$ $\langle \rangle$	$\langle \rangle$ $\langle \rangle$	$\langle \rangle$ $\langle \rangle$	$\langle \rangle$ \rangle
	$\langle \rangle$	$\langle \rangle$	$\langle \overset{\circ}{3} \rangle$	$\langle 3,4 \rangle$	$\langle 3, \overset{\circ}{4}, 5 \rangle$	$\langle \dot{\rangle}$	$\langle \dot{\rangle}$	$\langle \rangle$
	$\langle \rangle$	$\langle \rangle$	$\langle 4, 3 \rangle$	$\langle 4 \rangle$	$\langle 4, 5 \rangle$	$\langle \rangle$	$\langle \rangle$	$\langle \rangle$
	$\langle \rangle$	$\langle \rangle$	$\langle 5, 3 \rangle$	$\langle 5, 3, 4 \rangle$	$\langle 5 \rangle$	$\langle \rangle$	$\langle \rangle$	$\langle \rangle$
	$ \langle\rangle$	$\langle \rangle$	$\langle \rangle$	$\langle \rangle$	$\langle \rangle$	$\langle 6 \rangle$	$\langle 6,7 \rangle$	$\langle 6,7,8 \rangle$
	$\langle \rangle$	$\langle \rangle$	$\langle \rangle$	$\langle \rangle$	$\langle \rangle$	$\langle 7, 8, 6 \rangle$	$\langle 7 \rangle$	$\langle 7, 8 \rangle$
	$\langle \rangle$	$\langle \rangle$	$\langle \rangle$	$\langle \rangle$	$\langle \rangle$	$\langle 8, 6 \rangle$	$\langle 8, 6, 7 \rangle$	$\langle 8 \rangle$