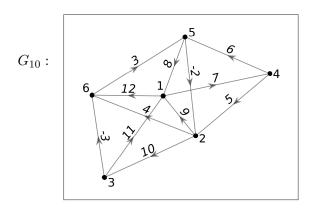
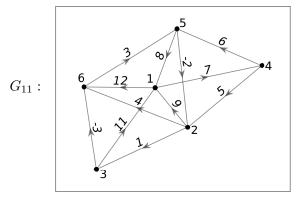
MATH.APP.270 Algorithms for graphs

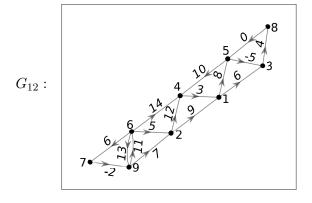
Programming assignment 2: more graphs for testing

2022

The digraphs that you should use for additional testing are presented here:







The following table contains the input files for these graphs:

$_{ m graph}$	Python input file	Matlab input file
G_{10}	G10PythonFW.txt	G10MatlabFW.m
G_{11}	${ t G11PythonFW.txt}$	G11MatlabFW.m
G_{12}	${\tt G12PythonFW.txt}$	G12MatlabFW.m

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

$$G10: \begin{bmatrix} \langle 1 \rangle & \langle 1,4,5,2 \rangle & \langle 1,4,5,2,3 \rangle & \langle 1,4 \rangle & \langle 1,4,5 \rangle & \langle 1,6 \rangle \\ \langle 2,1 \rangle & \langle 2 \rangle & \langle 2,3 \rangle & \langle 2,1,4 \rangle & \langle 2,6,5 \rangle & \langle 2,6 \rangle \\ \langle 3,6,5,2,1 \rangle & \langle 3,6,5,2 \rangle & \langle 3 \rangle & \langle 3,6,5,2,1,4 \rangle & \langle 3,6,5 \rangle & \langle 3,6 \rangle \\ \langle 4,5,2,1 \rangle & \langle 4,5,2 \rangle & \langle 4,5,2,3 \rangle & \langle 4 \rangle & \langle 4,5 \rangle & \langle 4,5,2,6 \rangle \\ \langle 5,2,1 \rangle & \langle 5,2 \rangle & \langle 5,2,3 \rangle & \langle 5,2,1,4 \rangle & \langle 5 \rangle & \langle 5,2,6 \rangle \\ \langle 6,5,2,1 \rangle & \langle 6,5,2 \rangle & \langle 6,5,2,3 \rangle & \langle 6,5,2,1,4 \rangle & \langle 6,5 \rangle & \langle 6 \rangle \end{bmatrix}$$

$$G11: \begin{bmatrix} \langle \rangle & \langle \rangle \\ \langle \rangle & \langle \rangle \\ \langle \rangle & \langle \rangle \\ \langle \rangle & \langle \rangle \\ \langle \rangle & \langle \rangle \\ \langle \rangle & \langle \rangle \end{bmatrix}$$

$$G12: \begin{bmatrix} \langle \rangle & \langle \rangle \\ \langle \rangle & \langle 2 \rangle & \langle \rangle \\ \langle \rangle & \langle \rangle \\ \langle \rangle & \langle \rangle \\ \langle \rangle & \langle \rangle \\ \langle \rangle & \langle 6, 2 \rangle & \langle 6 \rangle & \langle 6, 7 \rangle & \langle \rangle & \langle 6, 7, 9 \rangle \\ \langle \rangle & \langle 7, 9, 2 \rangle & \langle \rangle & \langle \rangle & \langle \rangle & \langle 7, 9, 6 \rangle & \langle 7 \rangle & \langle \rangle & \langle 7, 9 \rangle \\ \langle \rangle & \langle \rangle \\ \langle \rangle & \langle 9, 2 \rangle & \langle \rangle & \langle \rangle & \langle \rangle & \langle 9, 6 \rangle & \langle 9, 6, 7 \rangle & \langle \rangle & \langle 9 \rangle \end{bmatrix}$$

You will have to check these results manually.