

# Lab 9

## DIRECTED GRAPHS

# Problem 1: Cycles

- Create and Draw graph12.dat as a **directed graph**!
- A cycle is a list of 2 or more vertices  $v[0], v[1], \dots, v[n]$ , such that  $v[i]$  is connected by an edge to  $v[i+1]$ , and  $v[n]$  is connected to  $v[0]$ .
- Write a program for checking if graph12 has cycles

