CALIFORNIA STATE POLYTECHNIC UNIVERSITY

Computer Science Department

CS 2640 (3) T. Nguyen/F20

PROJECT: 3

DUE DATE: November 25, 2020

Description:

Write a program that constructs and outputs an adjacency matrix for a digraph. The graph will be constructed as a word matrix. The implementation must include the following subprograms:

main – prompt the user for the number vertices and build the matrix by prompting for the from to edges.

Matrix must be allocated on the stack

Required I/O:

```
Digraph by F. Last

Enter number of vertices? 9
Enter edge? AB
Enter edge? AE
...
Enter edge? X

* A B C D E F H I G
A 0 1 0 1 1 0 0 0 0 0
B 0 0 0 0 1 0 0 0 0
C 0 1 0 0 0 0 0 0 0
...
I 0 0 0 0 0 1 0 0 0
G 0 0 0 0 0 0 1 0 0
```

Turn in:

1. Submit the source code to:

```
cp digraph.s /user/tvnguyen7/cs2640-00#/BroncoName-digraph.s
```

is your section number, 1 or 2. BroncoName is the part preceding @cpp.edu in your email address.

Notes:

1. The following information is required in the beginning of every source file.

```
# Name: Last, First
# Project: #
# Due: date
# Course: cs-2640-0#-f20
#
# Description:
# A brief description of the project.
```