San José State University Department of Computer Science

CS 153/SE 153 Concepts of Compiler Design

Fall 2024 Instructor: Ron Mak

Assignment #1

Assigned: Thursday, August 22

Due: Thursday, August 29 at 4:00 PM

Individual assignment, 100 points max

Compile and execute a Pascal program

The purpose of this assignment is to give you a crash course in Pascal programming. Use one of the following online Pascal interactive development environments (IDE):

- http://rextester.com/l/pascal online compiler
- https://www.tutorialspoint.com/compile_pascal_online.php
- https://www.jdoodle.com/execute-pascal-online

Copy and paste the source code for the Pascal Presidents.pas and the input text file presidents.txt into the appropriate windows of your chosen development environment. Execute the program and get its runtime output.

- http://www.cs.sjsu.edu/~mak/CS153/assignments/1/Presidents.pas
- http://www.cs.sjsu.edu/~mak/CS153/assignments/1/presidents.txt

Expected output:

http://www.cs.sjsu.edu/~mak/CS153/assignments/1/presidents.output.txt

Make a screenshot of the Pascal IDE which include the Pascal program, its input, and its output.

Pascal text input

- If ch is a character variable, then read(ch) will read the next character from the standard input.
- If n is an integer variable, then read(n) will read the next integer value from the standard input.
- A call to readln will skip the rest of the current input line. Then the next call to read will read starting on the next input line.
- Boolean functions eoln and eof without parameters test whether the standard input is at the end of the current line or at the end of file, respectively. (If you're

typing input data into a Windows command window, a line containing only control-Z is the end-of-file marker. On Linux and the Mac, it's control-D.)

Pascal's built-in string type

Read online how to use the string type:

- https://wiki.freepascal.org/String
- https://www.freepascal.org/docs-html/rtl/sysutils/stringfunctions.html

To use Pascal string functions, you may need to add the line

Uses sysutils;

at the beginning of your program.

What to submit to Canvas

Your screen shots. Zip the files together and submit the zip file into Canvas: **Assignment #1.**

Rubric

Your submission will be graded according to these criteria:

Criteria	Max points
Good screenshot	100