

Devops-odd-sem-22-23

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Shell Programming Assignment

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Opened: Tuesday, 2 August 2022, 12:00 AM

Due: Tuesday, 9 August 2022, 12:00 AM

This is a warmup assignment.

Write shell scripts for the following tasks and submit files.

1. There are few .c and .h files in a given folder. The .c files #include some of the .h files. The code in .c files may be calling functions in other .c files. Write a shell script that automatically generates a "Makefile" assuming that (a) each .c file depends on those .c files, the functions in which are called by the .c file in consideration (b) a .o file depends on the corresponding .c file and all .h files that it #includes. (c) the final executable should be called a.out

Filename: dependency.sh

2. There is a simple arithmetic manipulation C program that tries to ensure that the sizes of data types remain the same on 32-bit and 64-bit intel processors. for this purpose, it has defined two folders "x86" and "x86_64" and included in them header files, that define data types specific to each platform. For example x86/ints.h and x86_64/ints.h define data types like "u32_t, u64_6, i64_t" meaning unsigned 32 bit integer, unsigned 64 bit integer, signed 64 bit integer respectively. There can be more such files in each folder.


Write a shell script that reads the entire folder of such a program, and generates a Makefile ensuring that proper .h files are used for compilation depending on the actual processor.

You need to write everything: .c files, .h files, both folders, and the shell script. The program can do very simple operations like adding two numbers, or multiplying them.

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Submission status

Submission status	Submitted for grading
Grading status	Not graded
Time remaining	Assignment was submitted 1 hour 31 mins early
Last modified	Monday, 8 August 2022, 10:28 PM
File submissions	<div> dependency.sh 8 August 2022, 10:28 PM</div>
Submission comments	▶ Comments (0)

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