

NAME: _____ STUDENT #: _____

EECE 259: Introduction to Microcomputers

QUIZ 3 – Practice

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Write a **flowchart** and **Nios II assembly language** program to copy a string from label TEXT to label COPY. While copying, you should not copy any character that is in the list of bad characters stored at label BADCHARS. All strings given are null-terminated (last character is the value 0); the copy should also end with 0.

- Your program must include a subroutine **isBadChar(c)** which returns 1 if the parameter character **c** is in the BADCHARS string, or 0 if it is not.

In the example below, the result at COPY should be the null-terminated string "som txt h".

You must use a flowchart or a C program. Using the stack is optional. Please obey register usage conventions.

```
.include "ubc-delmedia-macros.s"
.global _start
.text
_start:
```

```
.data
BADCHARS:
.asciz "er"
TEXT:
.asciz "some text here"
COPY:
.skip (COPY-TEXT)
.end
```