Matthew Bzowski
250910538
mbzowski@uwo.ca

CS2208
Assignment 4
Question 1 Flowchart

Start

Store the address of STRING1 in r0

Load the null character into register r5

Store the address of STRING2 in r3

Store value 1 in the counter

Load a character into r2 and increment STRING1 pointer

Store character from r2 into STRING2 and increment pointer

Is the character 't'? — Yes → Increment the counter

No

Is the character 'h'? — Yes

No

Is the character 'e'? — Yes

No

Is the character a space? — Yes → Is it the second character in a row?

No

No → Increment counter

Reset the counter ← No — Is the end of the string reached?

Yes

Does the counter equal 4? — No → End

Yes

Move the STRING2 pointer back 4 places

Is it the second character in a row? — Yes

No → Increment counter

Does the counter equal 5? — No

Yes

Move STRING2 pointer back 4 places

Store the null character from r5 where 't' is located

Move STRING1 pointer back 1 place

Reset the counter