ID: Name: Signature:

FINAL

STRING COMPARE

1. QUESTION

Write assembly code for following algorithm.

- Compare two strings.
- Your algorithm starts comparing first character of each string.

- If they are equal, it continues to compare with next character of each string until they are different or one of them is null character (which is zero).

- If both strings are equal, write **zero** into \$0120.
- If string1 is grater than string2, write **one** into \$0120.
- If string2 is grater than string1, write **two** into \$0120.
- string1 starts from \$0100.
- string2 starts from \$0110.

Example:

- "micro" is grater than "macro" because "macro" is alphabetically before than "micro".
- "orange" is grater than "apple" because "apple" is alphabetically before than "orange".

String initialization directive in assembly code:

	.org	\$0100
string1	.str	"apple"
	.org	\$0110
string2	.str	"orange"