2208 Assignment 4 Nicole Barucha 250 783 842

PSA: My 4^{th} year physics thesis is due this week so I had very little time to do this assignment fully/properly. Sorry \odot

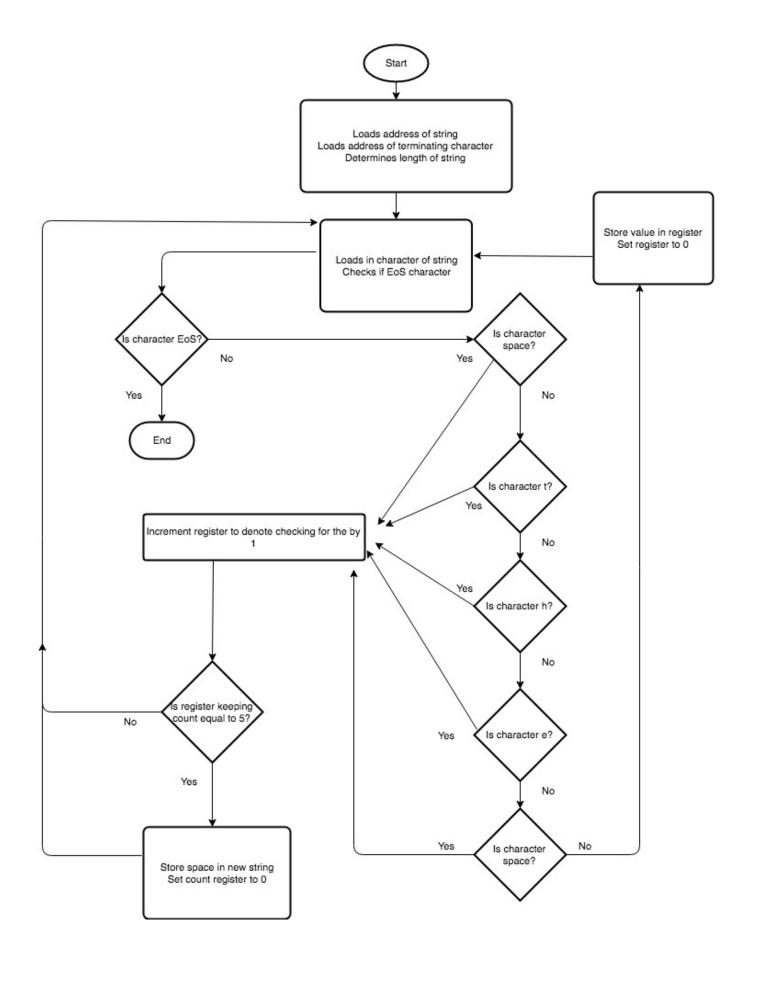
Question 1:

AREA ques1, CODE, READONLY ENTRY

		ADR r0, STRING1	;r0 is a pointer to
	the string	·	
	the end of	ADR r1, STRING2 the string	;r1 is the address at
	the array	SUB r4, r1, r0	;r1 is the length of
	Loop	LDRB r2, [r0], #one	;loads character of
	string is space	CMP r3, #spc	;checks if character
		BEQ equal	;branch if equal
	•	STRB r2, [r1], #one to the new string	;writes the value of
	equal	LDRB r2, [r0], #one	;loads next character
	of string is t	CMP r2, #t	;checks if character
		BNE notequal	;branches if not
	equal	LDRB r2, [r0], #one	;loads next character
	of string	CMP r2, #h	;checks if character
	is h	BNE notequal	;branches if not
	equal	LDRB r2, [r0], #one	;loads next character
	of string	CMP r2, #e	;checks if character
	is e	·	•
	equal	BNE notequal	;branches if not
	of string	LDRB r2, [r0], #one	;loads next character

equal	BNE notequal	;branches if not
exit	B exit	;ends program
STRING1 EoS STRING2 bytes one of 1 spc of space t of t h of h e of e	AREA ques1, DATA, READWRITE DCB "and the man said they must go" DCB 0X00 space 0xFF EQU 1 EQU 0x20 EQU 0x74 EQU 0x68 EQU 0x65	;string 1 ;end of string 1 ;just allocating 255 ;sets label to value ;labels ASCII value ;labels ASCII value ;labels ASCII value ;labels ASCII value
	END	

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Question 2:

```
AREA ques2, CODE, READONLY
          ENTRY
          B exit
exit
                                 ;exits program
          AREA ques2, DATA, READWRITE
          DCD 5
                                 ;define value of a
а
          DCD 6
                                ;define value of b
b
                                ;define value of c
          DCD 7
С
                                ;define value of d
d
          DCD 90
          END
```

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