```
Oct 4 22
                       0000
              128 1000
                       , , , ,
                  0111
                          RO Z RI
      CMP KO, RI
                        (ROLRI) RO? RI
a.
      MOVET RO, RI
                                        <u>U</u>
                                   5
     CMP RO, RI
6-
                        (RO < RI)
                                       HI
                                   GT
     MOVLO RO, RI
                                        H5
                                   GE
                                        LO
                                  LT
C.Z CMP RO, RI
                                       LS
                                  LE
    MOV RO, #O
                        (RO < R1)
   * MOVLT RO, RI
     CMP RI, #0
e,
                        R1 < #0
           shift-rient
     BLT
     MOV RO, RO LSL RI
     BX LR
  shift - ights
    NEG RI, RI
    MOV RO, ROLSRRI
    BX LR
   TST RO, RI
f.
    MOV RO, 40
    MOVNE RO, #/
    TST RO, #3
9 -
    MOV RO, 20
    MOVED RO, #1
    CMP RO, RI
h.
    MOV RO, 40
    MOVER RO, #1
```

12: 0x 00000002 RO = 0x34000000 RI = 0xCD 1258 EF a. STR XI, [RO] I.e. 0x34000000 OxEF 1 0x 58 2 0x 12 3 Ox CD b. STRH, RI, [RO] L.e. 0x34000000 0x EF Ox CD 12 58 EF1 1 0x 58 X C. STRB RI, [RO] L.e. Ox34000000 OxEF OxCD 12 58 [F] 1 X 3 X d. STR RI, [RO] B.E. 0x34000000 0xc0 1 0x 12 2 0x 58 B.E. e. STRH RI, [RO]

Ox CD12[58 EF] 3 OX E E 0x34000000 0x58 1 OX EF 2 1 F. STRB RI, [RO] 0x34000000 0x EF

R3= 0x 00000001

```
g. STRB RI, [RO, R3] 0x34000000 X
                                  OXEF
                                2 X
                                3 X
h. STR4 RI, [RO, RZ] Ox 34000000 X
                                  X
                              2 0x58
                             3 OXEF
3 a. LPR RO, [RI]
 b. LDRH RO, [RI, R2]
 C. LDRSH RO, [RI]
           RO, [RI]
 d. LDRB
e. LDRSB RO, [RI]
f. LDRSB RO, [RI, RZ]
                 OX FF FF FF 88
```

0	NIA
l	NIA
2	 0 x CA 0 x B3
4	 0x (0
5	0 x 00
6	 0 x 00
7	Ox oy

hello

'h' e' 1'1' 0' 0 []

0xc000 0000 'h'

01 'e'

02 '1'

3 '1'

4 '0'

8[] = 'n, e, 11, 5

extern vint82_t length String (s[])

- slobel length String . text length String:

MOV RI, RO
MOV RO, HO

loop-1:

LDRSB R2, [RI]

ADD RI, RI, HI

CMP RZ, HO

ADDNE RO, RO, HI

BNE 100P-1

BX LR

2.4

PUSH ER43

ER4-R93 EX4, R5, K6, R83

POP ER43

load Chors

confare

NE = 0

E0 = 1

RO = Addr String 1 RI = Addr String 2 R2 = char_1 R3 = char_2

Floating Point 1.5 1 ½ 2³ 2² 2² 2⁻² 2⁻³ 2⁻⁴ 5 1/16 16 16 24 1.1 101.0001 1 x 10° = 1000600 1000 0000 -1 101,0001 01/010001 x 22
assumed!

0.9996

1.0000 ···· ×2-4

.0000 ... X2-4

127 + -4 123

```
11/100/10 000/000/000/000/000/
  0x C179 0000
                              128
                               64
                               32
                               16
128
                                2
   1,000 0000.
      127+7
                                .125
                                .0625
                                .03125
               X 2 (3)
                                 = 130
                       127 +3
               11/1001
  2/11/11
   130
  10000010
```

10000110

```
Sypedef Struct _ BUSINESS2

uint32 t taxId;

char name [27];

char dir

char Street [35

uint32-tialdNo

chir city [30]

char State [3]

uint32.t z:p

BUSINESS2
```

OxFFF Co taxId taxId taxId

ON name

ON
ON -

11 W ALLEN ALL No

-		
51	50	DO
23	52	D O
55	54	
57	56	
59	58	
		VMOV
		V MOV VCMP

.