

1.

- a. R1, =x
R1, [R1]
R2, =y
R2, [R2]
CMP R1, R2
BLE R0, =6
B R0, =R1
- b. CBZ R0, DONE
ADD R0, R0, R1
B top
MOV R0, R1
- c. LDR R0, =x
LDR R0, [R0]
CMP R0, 10
BHI L1
CMP R0, 20
BLO L2

2.

- a. LDR R0, =a
LDR R0, [R0]
LDR R1, =b
LDR R1, [R1]
CMP R0, 0
ITET 6T
CMP R0, 100
IT 6T
- b. LDR R0, =a
LDR R0, [R0]
LDR R1, =b
LDR R1, [R1]

CMP	R0, 100
ITET	6T
CMP	R0, S0
IT	6T

3.

a.	R0, =a	
	R1, =b	
	R2, =c	
	CMP	R0, R1
	BLE	L1
	L1:	ADD R2, R1, 2
b.	R0, =a	
	R1, =b	
	R2, =c	
	CMP	R0, R1
	EQU	L1
	B	L2
	L1:	
		R2, =0
	L2:	
	SUB	R2, R0, R1
c.	R0, =a	
	R1, =b	
	R2, = c	
	CMP	R1, R1
	BLE	L1
	B	L2
	L1:	
		R0, = R1
	L2:	
		R0, =R2

4.

a. R0, =x

R1, =y

R2, =z

CMP R0, R1

BLT L1

B L2

L1:

R2, =6

L2:

R2, =R0

b. R0, =x

CMP R0, -10

BLT L1

CMP R0, 10

BGE L2

L1:

c. R0, =x

R1, =y

CMP R0, 10

BLT L1

CMP R0, 20

BLE L2

L1:

R1, =0

L2:

R1, =1

d. R0, ch

CMP 'a', ch

BLT L1

L1:

ADD R0, R0, 'A'
SUB R0, R0, 'a'

e. R0, =x

R1, =y

UDIV R0, R1, 5

f. R0, =u32

R1, =s32

CMP u32, 10

BLM L1

B L2

L1:

SUB R1, R1, 1

L2:

ADD R1, R1, 1

g. R0, =s32

CMP -10, R0

BLT L1

L1:

R0, =0