Homework07

Chapter8

- 8.1 : LIFO(last in, first out)
- **8.7**:

POP	ST	R0,SAVE0
	ST	R1,SAVE1
	ST	R2,SAVE2
	LD	R1,EMPTY
	ADD	R2,R6,R1
	BRz	FAIL
	ADD	R0,R4,#0
	ADD	R1,R3,#0
	ADD	R5,R6,R3
	ADD	R5,R5,#-1
		R6,R6,R3
LOOP1	LDR	R2,R5,#0
		R2,R0,#0
		R0,R0,#1
		R5,R5,#-1
		R1,R1,#-1
		L00P1
	•	zp SUCCESS
	Dittil	2p 3000233
PUSH	ST	R0,SAVE0
		R1,SAVE1
	ST	R2,SAVE2
		R1,FULL
		R2,R6,R1
		FAIL
		R0,R4,#0
		R1,R3,#0
		R5,R6,#-1
		R2,R3
		R2,R2,#1
	ADD	R6,R6,R2
LOOP2	LDR	R2,R0,#0
20012		R2,R5,#0
		R0,R0,#1
		R5,R5,#-1
		R1,R1,#-1
		LOOP2
	ыvр	LUUF Z
SUCCESS	LD	R2,SAVE2
20000233	LD	R1,SAVE1
	LD	
		R5,R5,#0
	AND	ש#, כא, כא

SUCCESS LD R2,SAVE2
LD R1,SAVE1
LD R0,SAVE0
AND R5,R5,#0
RET

FAIL LD R2,SAVE2
LD R1,SAVE1
LD R0,SAVE0
AND R5,R5,#0
ADD R5,R5,#1
RET

```
EMPTY .FILL xC000
FULL .FILL xC005
SAVE0 .FILL x0000
SAVE1 .FILL x0000
SAVE2 .FILL x0000
```

• 8.8 :

- a. A F
- b. After PUSH J or PUSH K
- c. A F M
- **8.12**:

xA243	x0042	
xA244	x4100	
xA245	x4000	(t)
xA246	X4100	Ã
xA247	X4100	
xA248	XEBBIS	200

24000

x3050

EM. .

MORT

x4100	x0043
x4101	XBBBB
x4102	XA245
x4103	XA143
x4104	XBBBB
x4105	O
x4106	constantly

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x0045

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x3104	XBBBB
x3105	0
x3106	200

x3100

x3101

x3102

x3103

x3104

8.14 :

- a. JSR X
- b. R1,R3,#1

beilgans o.

the five to

- C. R2,R3,#1
- d. R1, R0

- e. ADD R0,R1,R2
- f. R5,#1
- g. LABEL
- h. ADDING
- i. R2,R2,#0