

ÜBUNG: Adressierungsarten „immediate offset, register offset, pre-indexed, post-indexed“

	10	06	56	56	67	78	89	89	9A	AB	BC	CD
Adr.	1000	1001	1002	1003	1004	1005	1006	1007	1008	1009	100A	100B
Inh.	10	06	34	45	56	67	78	89	9A	AB	BC	CD

			3 +0	2 +1	1 +2	0 +3
mov	r0, #0x1000 (erlaubt ?)	[r0] =	00	00	10	00
① ldr	r1, [r0, #4]	[r1] =	89	78	67	56
② strb	r1, [r0, #2]	[M(0x1000)] =	10	06	56	45
③ ldr	r2, [r0, #4]!	[r2] =	89	78	67	56
④ ldr	r3, [r0, #4]!	[r3] =	CD	BC	AB	9A
ldrb	r4, [r0], #1	[r4] =	00	00	00	JA
ldrb	r5, [r0], #1	[r5] =	00	00	00	AB
⑤ ldrb	r6, [r0], #1	[r6] =	00	00	00	BC
str	r1, [r0, #-8]	[M(0x1002)] =				

→ immediate
→ imm. offset
→ imm. offset
→ pre indexed, update
→ pre indexed, update
→ post indexed
→ "
→ "
→ "
→ pre indexed

Wert wird nicht Word-aligned geschrieben
(Ergebnis unvorhersagbar!)

① $r0 = 1000$
② $r0 = 1000$
③ $r0 = 1004$
④ $r0 = 1008$
⑤ $r0 = 100B$

} nach der Befehlsausführung