

Jesse Mayer

HW#3

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| 2.a. | LDR R0,=0<br>STRB R0,u8<br>BX LR         | b. | LDR R0,=0<br>STRH R0,u16<br>BX LR                     | c. | LDR R0,=0<br>STR R0,u32<br>BX LR                   |
| d.   | LDRD R0,R1,=0<br>STRD R0,R1,u64<br>BX LR | e. | LDRB R0,u8<br>STRH R0,u16<br>BX LR                    | f. | LDRB R0,u8<br>STR R0,u32<br>BX LR                  |
| g.   | LDRH R0,u16<br>STR R0,u32<br>BX LR       | h. | LDR R0,u32<br>LDR R1,=0<br>STRD R0,R1,u64<br>BX LR    | i. | LDRB R0,u32<br>STRB R0,u8<br>BX LR                 |
| j.   | LDRB R0,u16<br>STRB R0,u8<br>BX LR       | k. | LDRH R0,u32<br>STRH R0,u16<br>BX LR                   |    |  |
| 3.a. | LDR R0,=-1<br>STRB R0,s8<br>BX LR        | b. | LDR R0,=-1<br>STRH R0,s16<br>BX LR                    | c. | LDR R0,=-1<br>STR R0,s32<br>BX LR                  |
| d.   | LDR R0,=-1<br>STRD R0,s64<br>BX LR       | e. | LDRSB R0,s8<br>LDRH R0,s16<br>BX LR                   | f. | LDRSB R0,s8<br>STR R0,s32<br>BX LR                 |
| g.   | LDRSH R0,s16<br>STR R0,s32<br>BX LR      | h. | LDR R0,s32<br>ASR R1,R0,31<br>STRD R0,R1,s64<br>BX LR | i. | LDRB R0,s32<br>STRB R0,s8<br>BX LR                 |
| j.   | LDRB R0,s16<br>STRB R0,s8<br>BX LR       | k. | LDRH R0,s32<br>STRH R0,s16<br>BX LR                   |    |  |
| 4.a. | ADR R0,s32<br>STR R0,ps32<br>BX LR       | b. | ADR R0,s8<br>STRB R0,ps8<br>BX LR                     | c. | LDRB R0,ps8<br>ADD R0,R0,1<br>BX LR                |
| d.   | LDR R0,ps32<br>ADD R0,R0,1<br>BX LR      | e. | LDR R0,ps32<br>LDR R1,=0<br>STR R1,[R0]<br>BX LR      | f. | LDRB R0,ps8<br>LDR R1,=0<br>STR R1,[R0,4]<br>BX LR |

g.	LDR R0,ps32 LDR R1,=0 STR R1,[R0,4] BX LR	h.	LDR R0,ps32 LDR R1,s32 LDR R2,=0 STR R2,[R0,R1] BX LR	i.	LDR R0,=0 ADR R1,s32 STRB R1,[R2] STRB R0,[R2,LSL1] BX LR
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7.	MOV [R2],[R0] MOV [R0],[R1] MOV [R1],[R2] BX LR
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