```
1.
```

3.

a. PUSH $\{R4, R5\}$ **LDRD** R2, R3, [R0], 8 **LDRD** R4, R5, [R1], 8 **ADDS** R2, R2, R4 ADCS R3, R3, R5 **STRD** R2, R3, [R0], 8 POP $\{R4,R5\}$ b. LDRD R1, R2, [R0], 8 **SUB** R1, R1, 5 **STRD** R1, R2, [R0], 8 c. MUL R3, R0, R1 STR R3, R2 d. MUL R3, R0, R1 STR R3, R2 e. SDIV R3, R0, R1 STR R3, R0 f. UDIV R3, R0, R1 STR R3, R0 g. SDIV R3, R0, R1 MLS R0, R1, R3, R0 STR R0, R2 2. MUL R4, R1, R1 MUL R5, R0, R2, LS R6, 4 CUT R6, R6 **MUL** R5, R5, R6 NEG R4, R4, R5 a. MUL R0, R0, R1 MUL R0, R0, R2 BXLR b. uint32 t a = 1uint32 tb = 2uint32 t c = 3printf ("Answer:", a*b*c) printf ("Function:", Volume(a, b, c)