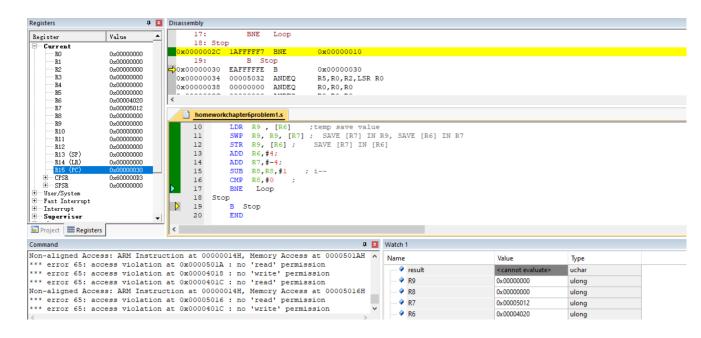
```
AREA Fctrl,CODE,READONLY ; declare Fctrl
    ENTRY
    CODE32
                   ; declare 32 b ARM
START
    LDR R6, =0x4000; A\prod frist address sent to r6
    LDR R7, =0x5032; B[] frist address sent to r7
    MOV R9, #0
                    ; init temp
    MOV R8, #8
                   ; init i
Loop ; for swap
    LDR R9, [R6]
                    ;temp save value
    SWP R9, R9, [R7]; SAVE [R7] IN R9, SAVE [R6] IN R7
    STR R9, [R6];
                    SAVE [R7] IN [R6]
    ADD R6,#4;
    ADD R7,#-4;
    SUB R8,R8,#1
                   ; i--
    CMP R8,#0
    BNE
          Loop
Stop
    B Stop
    END
```



第六题:

代码如下:

AREA Fctrl,CODE,READONLY ; declare Fctrl

ENTRY ;

CODE32 ; declare 32 b ARM

START

MOV R6, #0; save sum

```
MOV R7, #5; R7 from 5 begin
        :this is FOR i--
loop2
    MOV R8, R7
                     ; init low bit , such as calculate 4!, R7 give 4 to R8
    MOV R9, #0
                     ; init high bit
    SUB R0,R8,#1
                     ; init R0
Loop ; for calculate i!
    MOV R1, R9
                     ;temp save high bit value
    UMULL R8, R9, R0, R8; [R9:R8]=R0*R8
    MLA R9.R1.R0.R9 : R9=R1*R0+R9
    SUBS R0, R0, #1;
                           R0 from 9 to 0 loop
                  ;if not 0 continue loop, dont' need cmp is ok. SUBS S will influence CPSR,
compare with zero
    ADD R6, R8, R6; SUM = SUM + I!
    SUBS R7, R7, #1;
    BNE
         loop2
Stop
    B Stop
    END
结果保存在 R6
```

