

课堂习题： 18342138 郑卓民

试编写一个程序，求出首地址为 DATA 的 100 个字数组中的最小偶数，并把它存放在 MIN 地址中。

C++:

```
1. //cpp
2. int i=0;
3. int curmin = 0;
4. while(i <= 100){
5.     int cur = DATA[i++];
6.     if(cur & 1 == 0){
7.         curmin = cur;
8.         break;
9.     }
10. }
11. while(i <= 100){
12.     int cur = DATA[i++];
13.     if(cur & 1 == 0 && cur < curmin)
14.         curmin = cur;
15. }
16. MIN = curmin;
```

ARM:

```
1. GETMIN:
2.     MOV R0, #0;
3.     MOV R1, #DATA;
4.     MOV R2, #0;
5.     MOV R6, #MIN;
6. LOOP1:
7.     CMP R0, #100;
8.     BEQ END;
9.     LDR R3, [R1], #1;
10.    ADD R0, #1;
11.    AND R4, R3, #1;
12.    CMP R4, #0;
13.    MOVEQ R2, R3;
14.    BNE LOOP1;
15. LOOP2:
16.    LDR R3, [R1], #1;
17.    AND R4, R3, #1;
18.    CMP R4, #0;
19.    CMPEQ R3, R2;
20.    MOVLTEQ R2, R3;
21.    ADD R0, #1;
22.    CMP R0, #100;
23.    BNE LOOP2;
24. END:
25.    MOV R6, R2;
26.    MOV PC, LR;
```