全部的程式:

```asm
    1    ;directives
    2    TITLE hw3                       ;94title 不打還是可以執行
    3    INCLUDE Irvine32.inc
    4
    5    ;set valuables
    6    .data
    7    A   DWORD 4
    8    B   DWORD 3
    9    C1   DWORD 2
   10    D   DWORD 1
   11
   12    ;set instructions
   13    .code
   14    main PROC
   15
   16        mov eax, A                  ;mov A to eax
   17        add eax, B                  ;add B to eax to make (A+B)
   18        mov ebx, C1                 ;add C1 to ebx
   19        add ebx, D                  ;add D to ebx to make (C1+D)
   20        sub eax, ebx                ;sub ebx to eax to make (A+B) - (C1+D)
   21        mov A, eax                  ;mov eas( (A+B) - (C1+D)  ) to A
   22        mov edx, A                  ;add A to edx so that we can see A's value
   23
   24        call DumpRegs
   25        call Crlf
   26        INVOKE ExitProcess, 0
   27
   28    main ENDP
   29    END  main
```
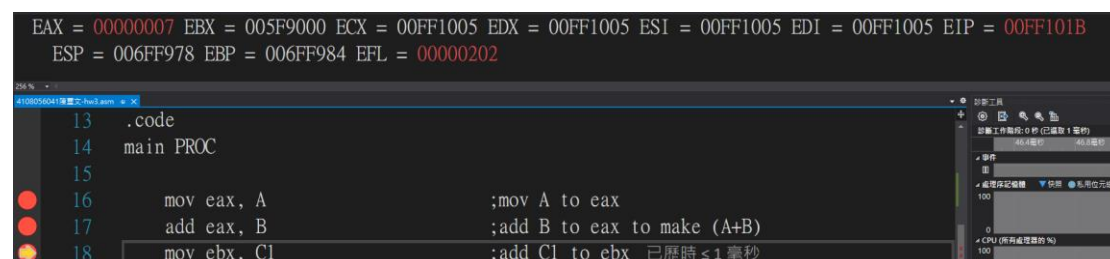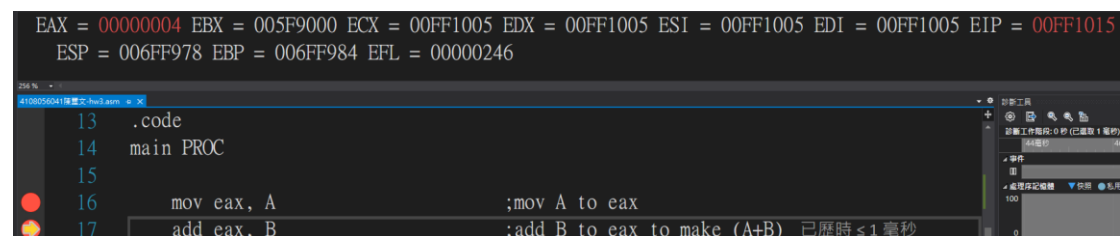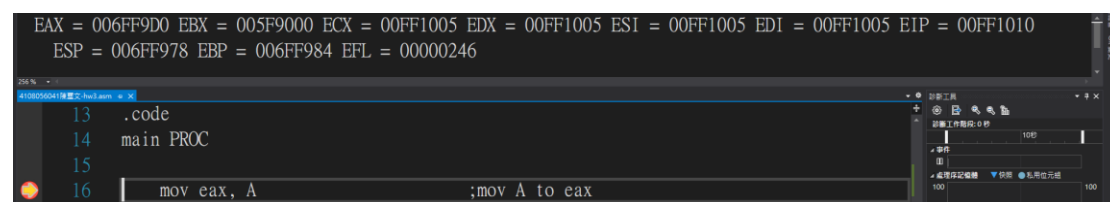
過程:

還沒執行到箭頭那行

EAX = 006FF9D0 EBX = 005F9000 ECX = 00FF1005 EDX = 00FF1005 ESI = 00FF1005 EDI = 00FF1005 EIP = 00FF1010
ESP = 006FF978 EBP = 006FF984 EFL = 00000246

```
   13    .code
   14    main PROC
   15
   16        mov eax, A                  ;mov A to eax
```

EAX = 00000004 EBX = 005F9000 ECX = 00FF1005 EDX = 00FF1005 ESI = 00FF1005 EDI = 00FF1005 EIP = 00FF1015
ESP = 006FF978 EBP = 006FF984 EFL = 00000246

```
   13    .code
   14    main PROC
   15
   16        mov eax, A                  ;mov A to eax
   17        add eax, B                  ;add B to eax to make (A+B)   已歷時 ≤1 毫秒
```

EAX = 00000007 EBX = 005F9000 ECX = 00FF1005 EDX = 00FF1005 ESI = 00FF1005 EDI = 00FF1005 EIP = 00FF101B
ESP = 006FF978 EBP = 006FF984 EFL = 00000202

```
   13    .code
   14    main PROC
   15
   16        mov eax, A                  ;mov A to eax
   17        add eax, B                  ;add B to eax to make (A+B)
   18        mov ebx, C1                 ;add C1 to ebx   已歷時 ≤1 毫秒
```

```
EAX = 00000007 EBX = 00000002 ECX = 00FF1005 EDX = 00FF1005 ESI = 00FF1005 EDI = 00FF1005 EIP = 00FF1021
ESP = 006FF978 EBP = 006FF984 EFL = 00000202
```

```asm
13      .code
14      main PROC
15
16          mov eax, A                      ;mov A to eax
17          add eax, B                      ;add B to eax to make (A+B)
18          mov ebx, C1                     ;add C1 to ebx
19          add ebx, D                      ;add D to ebx to make (C1+D)   已歷時 ≤1毫秒
```

```
EAX = 00000007 EBX = 00000003 ECX = 00FF1005 EDX = 00FF1005 ESI = 00FF1005 EDI = 00FF1005 EIP = 00FF1027
ESP = 006FF978 EBP = 006FF984 EFL = 00000206
```

```asm
13      .code
14      main PROC
15
16          mov eax, A                      ;mov A to eax
17          add eax, B                      ;add B to eax to make (A+B)
18          mov ebx, C1                     ;add C1 to ebx
19          add ebx, D                      ;add D to ebx to make (C1+D)
20          sub eax, ebx                    ;sub ebx to eax to make (A+B) - (C1+D)   已歷時 ≤
```

```
EAX = 00000004 EBX = 00000003 ECX = 00FF1005 EDX = 00FF1005 ESI = 00FF1005 EDI = 00FF1005 EIP = 00FF1029
ESP = 006FF978 EBP = 006FF984 EFL = 00000202
```

```asm
13      .code
14      main PROC
15
16          mov eax, A                      ;mov A to eax
17          add eax, B                      ;add B to eax to make (A+B)
18          mov ebx, C1                     ;add C1 to ebx
19          add ebx, D                      ;add D to ebx to make (C1+D)
20          sub eax, ebx                    ;sub ebx to eax to make (A+B) - (C1+D)
21          mov A, eax                      ;mov eas( (A+B) - (C1+D)  ) to A   已歷時 ≤1毫秒
```

```
EAX = 00000004 EBX = 00000003 ECX = 00FF1005 EDX = 00FF1005 ESI = 00FF1005 EDI = 00FF1005 EIP = 00FF102E
ESP = 006FF978 EBP = 006FF984 EFL = 00000202
```

```asm
13      .code
14      main PROC
15
16          mov eax, A                      ;mov A to eax
17          add eax, B                      ;add B to eax to make (A+B)
18          mov ebx, C1                     ;add C1 to ebx
19          add ebx, D                      ;add D to ebx to make (C1+D)
20          sub eax, ebx                    ;sub ebx to eax to make (A+B) - (C1+D)
21          mov A, eax                      ;mov eas( (A+B) - (C1+D)  ) to A
22          mov edx, A                      ;add A to edx so that we can see A's value   已歷
```

```
EAX = 00000004 EBX = 00000003 ECX = 00FF1005 EDX = 00000004 ESI = 00FF1005 EDI = 00FF1005 EIP = 00FF1034 ESP = 00B6F810 EBP = 00B6F81C
EFL = 00000202
```

```asm
10      D  DWORD 1d
11
12      ;set instructions
13      .code
14      main PROC
15
16          mov eax, A                      ;mov A to eax
17          add eax, B                      ;add B to eax to make (A+B)
18          mov ebx, C1                     ;add C1 to ebx
19          add ebx, D                      ;add D to ebx to make (C1+D)
20          sub eax, ebx                    ;sub ebx to eax to make (A+B) - (C1+D)
21          mov A, eax                      ;mov eas( (A+B) - (C1+D)  ) to A
22          mov edx, A                      ;add A to edx so that we can see A's value
23          ;call DumpRegs
24          ;call Crlf
25          INVOKE ExitProcess, 0           已歷時 ≤1毫秒
```