```
18
19;-----
             .data
21 array1:
             .byte 3, -37, 17, 11
22 sum:
             .space 1
23 avg:
             .space 1
24
25
26 RESET
           mov.w #_STACK_END,SP ; Initialize stackpointer
27 StopWDT
             mov.w #WDTPW|WDTHOLD, &WDTCTL ; Stop watchdog timer
28
29
30
32; Main loop here
34
35; Task 1
                                       ; R4 is index
36
             clr.b
                     R4
37
             clr.b R5
                                       ; clear!
38
                                   ; R4 is index
; Initializing R5
; R5 <- 3
39
                     #0,
                              R4
             mov.b
             mov.b #0,
40
                               R5
41
             add.b &array1, R5
42
43
                                    ; R5 <- R5 + -37
             add.b &array1+1, R5
                                   ; R5 <- R5 + 17
             add.b
                     &array1+2, R5
44
                                       ; R5 <- R5 + 11
             add.b
                     &array1+3, R5
45
46
                     R5, &sum
             mov.b
                                       ; sum <- R5
47
48
                     R5
                                       ; R5 / 2
             rra.b
49
             rra.b
                     R5
                                        ; R5 / 2
50
51
             add.b
                     R5, &avg
                                        ; avg <- R5
52
0x2400 - array1 <Memory Rendering 22> 🖾 🔌
8-Bit Binary
0x002400 array1
0x002400 00000011 11011011 00010001 00001011
0x002404 sum
0x002404 11111010
0x002405 avg
0x002405 11111110
0x2400 - array1 <Memory Rendering 21> 🛛 🦠
8-Bit Signed Int
0x002400 array1
0x002400 3
               -37
                      17
                            11
0x002404 sum
0x002404 -6
0x002405 avg
0x002405 -2
```

```
53
54; Task 2
55
            clr.b
                  R4
56
                  #0xB4, &0x1C11 ; 0x1C11 <- 0xB4
57
            mov.b
           58
59
61
62
63
                  #0x95, &0x1C17
                                  ; 0x1C17 <- 0x95
            mov.b
64
65
66 main:
67
            jmp
                  main
68
            nop
69
0x1c10 - 0x1C11(-0x1) <Memory Rendering 24> 🖾
```

8-Bit Hex - C Style ~

 0x001C10
 0xDD 0xB4 0xFA 0x1C 0xAB 0x27 0xD3 0x95 0xE8

 0x001C27
 0xDB 0x5F 0xF3 0xFF 0x76 0xDF 0x8F 0x4E 0x63

 0x001C3E
 0x5E 0xA9 0xE7 0x3A 0x7F 0xDE 0xFF 0xBA 0xEF

 0x001C55
 0xFB 0xB9 0xE1 0xFF 0xE5 0xFB 0xC1 0x75 0xBA

0x1c10 - 0x1C11(-0x1) < Memory Rendering 24> 🖾

16-Bit Hex - C Style

 0x001C10
 0xB4DD 0x1CFA 0x27AB 0x95D3 0xBFE8 0x9DDF

 0x001C30
 0xF6DC 0x3F7F 0xF79F 0xB55F 0xDFFF 0x604D

 0x001C50
 0xF35B 0xF8D9 0xFBFD 0xE1B9 0xE5FF 0xC1FB

