```
090A  FE  SHL      ;  "        "          " (total x 8 here)
  0B  F4  ADD      ;Add (x 8 value) + (x 2 value)=(x 10 value total)
  0C  26  DEC  R6  ;R6 points to Chip-8's VA=VX board coordinate
  0D  E6  SEX  6   ;X=6 for next add instruction
  0E  F4  ADD      ;Add (x 10 VY value)+(VX value)=address
  0F  AA  PLO  RA  ;RA.0=D--put result in RA to address board square

0910  12  INC  R2  ;Reset stack pointer
  11  30  BR       ;Branch to exit @ 0900
  12  00
```

0913-0917 -- Not used -- FILLER

SUB HANDLER (FOR RUNNING ROUTINES IN R4)

```
0918  93  GHI  R3  ;D=R3.1
  19  B4  PHI  R4  ;R4.1=R3.1
  1A  83  GLO  R3  ;D=R3.0
  1B  A4  PLO  R4  ;R4.0=R3.0--set R4=return address to sub
  1C  D4  SEP  R4  ;Calling sub runs in R4
  1D  F8  LDI      ;Handler's PC points to here
  1E  00
  1F  B4  PHI  R4  ;Set R4=0042 for return to Chip-8

0920  F8  LDI      ;    Interpreter control
  21  42           ;   "       "       "       "
  22  A4  PLO  R4  ;   "       "       "       "
  23  D4  SEP  R4  ;Return control to Chip-8 Interpreter
```

MLS - SEARCH SUB

```
0924  E2  SEX  2   ;X=2
  25  22  DEC  R2  ;Stack pointer free
  26  8E  GLO  RE  ;D=Index #1
  27  52  STR  R2  ;Push for adding
  28  06  LDN  R6  ;D=M(R(6)) = VA = VX
  29  F4  ADD      ;Add to index on stack
  2A  56  STR  R6  ;Return to M(R(6)) = VA
  2B  8F  GLO  RF  ;D=Index #2
  2C  52  STR  R2  ;Push for adding
  2D  07  LDN  R7  ;D=M(R(7)) = VB = VY
  2E  F4  ADD      ;Add to index on stack
  2F  57  STR  R7  ;Return to M(R(7)) = VB

0930  30  BR       ;Branch to refer entry to conclude sub
  31  03           ;     @ 0903 (stack reset there too)
```