

```
@status
   M=-1
                     // 0xFFFF
   D=0
   @SETSCREEN
   0;JMP
(LOOP)
   @KBD
       D=M
   @SETSCREEN
                    // If no key detected, set screen to 0
      D; JEQ
                     // If key detected, set screen to 1
(SETSCREEN)
   @ARG
       M=D
   @status
                     // black = FFFF, white = 0
       D=D-M
   @LOOP
               // Reset
       D; JEQ
   @ARG
       D=M
   @status
       M=D
   @SCREEN
       D=A
   @8192
       D=D+A
       M=D
(SETLOOP)
       D=M-1
       M=D
   @LOOP
       D;JLT
                  // if i<0 then LOOP
   @status
       D=M
       A=M
                  // M[address]=status
       M=D
   @SETLOOP
       0;JMP
```

