

001000	042510
001002	046114
001004	020117
001006	047527
001010	046122
001012	020504
001014	005015
001016	000000
001020	012701
001022	001000
001024	112100
001026	001406
001030	105737
001032	177564
001034	100375
001036	110037
001040	177566
001042	000770
001044	000000

```

;
; DEFINE REGISTERS
;
        R0 = %0
        R1 = %1
;
; DEFINE ASCII CONSTANTS
;
        CR = 15
        LF = 12
        NUL = 0
;
; SET INITIAL LOCATION COUNTER
;
        . = 1000
;
; DEFINE DATA
;
MSG:    .ASCII    /HELLO WORLD!/
        .BYTE    CR,LF,NUL
        .EVEN
;
; MAIN PROGRAM
;
START:  MOV      #MSG,R1                ;R1=ADDRESS OF MSG

LOOP:   MOVB    (R1)+,R0                ;MOVE NEXT CHAR TO R0
        BEQ     BYE                     ;EXIT IF NUL
L1:     TSTB    @#177564                 ;WAIT FOR PRINTER READY
        BPL     L1
        MOVB   R0,@#177566              ;PRINT CHAR IN R0
        BR     LOOP                     ;PROCESS NEXT CHARACTER

BYE:    HALT                             ;THAT S ALL FOLKS!

        .END      START

```