

시스템프로그래밍 (2020년도) HW #10 Macro

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Fig 4.7(a) ==> Fig 4.7(b)

```

25 RDBUFF MACRO &INDEV,&BUFADR,&RECLTH
30 CLEAR X CLEAR LOOP COUNTER
35 CLEAR A
40 CLEAR S
45 +LDT #4096 SET MAXIMUM RECORD LENGTH
50 $LOOP TD =X'&INDEV' TEST INPUT DEVICE
55 JEQ $LOOP LOOP UNTIL READY
60 RD =X'&INDEV' READ CHARACTER INTO REG A
65 COMPR A,S TEST FOR END OF RECORD
70 JEQ $EXIT EXIT LOOP IF EOR
75 STCH &BUFADR,X STORE CHARACTER IN BUFFER
80 TIXR T LOOP UNLESS MAXIMUM LENGTH
85 JLT $LOOP HAS BEEN REACHED
90 $EXIT STX &RECLTH SAVE RECORD LENGTH
95 MEND
    
```

```

RDBUFF F1,BUFFER,LENGTH

CLEAR X
CLEAR A
CLEAR S
+LDT #4096
$AALoop TD =X'F1'
JEQ $AALoop
RD =X'F1'
COMPR A,S
JEQ $AAEXIT
STCH BUFFER,X
TIXR T
JLT $AALoop
$AAEXIT STX LENGTH
    
```

(Comments는 필요없어요!!)

(왼쪽 처음 칸의 LOCCTR 값은 없어도 됩니다.)

Fig 4.8(a) ==> Fig 4.8(b,d)

```

25 RDBUFF MACRO &INDEV,&BUFADR,&RECLTH,&EOR,&MAXLTH
26 IF (&EOR NE ' ')
27 SET 1
28 ENDIF
30 CLEAR X CLEAR LOOP COUNTER
35 CLEAR A
38 IF (&EORCK EQ 1)
40 LDCH =X'&EOR' SET EOR CHARACTER
42 RMO A,S
43 ENDIF
44 IF (&MAXLTH EQ ' ')
45 +LDT #4096 SET MAX LENGTH = 4096
46 ELSE
47 +LDT #&MAXLTH SET MAXIMUM RECORD LENGTH
48 ENDIF
50 $LOOP TD =X'&INDEV' TEST INPUT DEVICE
55 JEQ $LOOP LOOP UNTIL READY
60 RD =X'&INDEV' READ CHARACTER INTO REG A
63 IF (&EORCK EQ 1)
65 COMPR A,S TEST FOR END OF RECORD
70 JEQ $EXIT EXIT LOOP IF EOR
73 ENDIF
75 STCH &BUFADR,X STORE CHARACTER IN BUFFER
80 TIXR T LOOP UNLESS MAXIMUM LENGTH
85 JLT $LOOP HAS BEEN REACHED
90 $EXIT STX &RECLTH SAVE RECORD LENGTH
95 MEND
    
```

(b) RDBUFF F3,BUF,RECL,04 2048

```

CLEAR X
CLEAR A
LDCH =X'04'
RMO A,S
+LDT #2048
$AALoop TD =X'F3'
JEQ $AALoop
RD =X'F3'
COMPR A,S
JEQ $AAEXIT
STCH BUF,X
TIXR T
JLT $AALoop
$AAEXIT STX RECL
    
```

(d) RDBUFF F1,BUFF,RLENG,04

```

CLEAR X
CLEAR A
LDCH =X'04'
RMO A,S
+LDT #4096
$AALoop TD =X'F1'
JEQ $AALoop
RD =X'F1'
COMPR A,S
JEQ $ABEXIT
STCH BUFF,X
TIXR T
JLT $AALoop
$ABEXIT STX RLENG
    
```