Dorskun Ningthonjan LBM9CS041

Binary Search MRCC, LAB

MODEL SMALL
DISPLAY MACRO MSG

LEA DX, MSG

MOV AH, O9H

INT 214H

ENDM

LIST DB OIH, OSH, OFH, 10H, 12H, 14H

NUMBER EQU (\$-LIST)

KEY DB 12H

MSG1 DB ODH, WAH, "ELEMENT FOUND IN THELIST... \$"

MSG2 DB WDH, WAH, "SEACH FAILED! ELEMENT NOT

FOUND IN THE LIST \$"

CODE

START: MOV AX, @DATA

MOV DS, AX

MOV CH, NUMBER-1.

MOV CL, OOH.

AGAIN: MOV SI, OFFSET LIST XOR AX, AX CMP CL, CH JENEXT JNC FAILED NEXT: MOV AL, CL

ADD AL, CH

SHR AL, OlH

MOV BL, AL

XOR AH, AH

MOV · BP, AX

MOV AL, DS: [BP][SI]

CMP AL, KEY

·JE SUCCESS

JC INCLOW

Mor CH, BL

DEC CH

JMP AGAIN

INCLOW : MOV CL, BL

INC CL

JMP AGAIN

SUCCESS; DISPLAY MSG1

JMP FINAL

FAILED : DISPLAY MSG2

D2) •

FINIAL : MOV AH, YCH

INT 21 H

END START