	MP LAR
	MODEL SMALL
	; Macro to display the Mexage
	Disphay macro msg LEA DX, MSG
	MOV AH, OGH
	INT 21 H
	ENDM
	· DATA
	List DB 014, 05H, 67H, 10H, 12H, 14H Number Equ (\$-18t)
	Key DB 012H
	MSGI DR ODH, OAH, "Element found in the
	MSG2 DB ODH, OAH, "Search Failed!! Element not found in the list \$"
	·CoDE
1	Start: MOV AX, @ DATA
To Take a	mor Ds, Ax
	MOV CH, Number-1; High Value
	Again: MOV SI: OF Offset List
()	your ser ust

	XOR AX, AX
	CMPCL, CHiCLCCh
	JE. Next
	INC failed
	Next: MOV AL, CL; mid=low+high/2 0+5/2=2
	ADD AL, CH
	SHR AL, OIH; Divide by 2
	MOV BL, AL
	XOR AH, AH; Clear AH
	MOV BOBP, AX
i i	MOV AL, DS: [BP] [SI]
· · · ·	CMP AL, KEY; COMPARE KEY AND A [1]
	JE SUCCESS; if equal, Desiplay success
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- 1	MOV CH, BL; If Key > A[I] Shift beto
	DEC CH
tu.	JMP Again
	In Clow! MOV CL, BL; If Key EA [I] shift low
	INC CL
	JMP AGAIN
	SUCCESS: DISPLAY MSQ 1
	JMP FINAL
A STATE OF THE STA	FAILED: DISPLAY MSGZ ; JOB OVER. TERMINATE
	FINAL: MOVAH, 4CH
1.	INT 21H