Linear search:	
ALP to perform	linear search on a given anno
Number of elements: CO40; Elements: CO41, CO42,; Key: CO70; Result: CO71	
(1-found, 0-mot dound)	
LXI H CN40H	- HL L- 1840, at M[co40] contains The armay size
MOV C M	- Armay size is copied to Loop variable C
S. LDA CO40H	- Load the key from M[co70] to ACC
BACK! INX H	- INCLEMENT HT TO LOWL IN
CMP H	the next armay- element - Content of Ace (key) is compared with M[H]
JZ FOUND	- If M[HL] matches the key jump to FOUND
DCR C	- Derement loop variable c Cnumber of iterations
JNZ BACK	- If cto, jump to 'BACK'
MVI A OOH	- store or at ALC (to indi- cate that the key wasn't found)
JMP END	- Jump lo 'END'
FOUND: MVI A OIH	- store of at Ace (to imaicate that the key

Scanned by CamScanner

vas fourna).

END: STA COTIH

- store The constent of Acc at M[c871]

HLT

- End of program.