The criteria are the stored program concept, so the program istored in memory. Each memory is addressed withanswers. We mory is returned to the location number despite data. 1, takthe first number and storit 2. Counter is incremented 3. data does not aftect the instruction 6.5 Mailbox nourice mnenoniccode Input 1st number Store whatsin mailhox 300 Input recondences 901 02 Add numbers 03 100 Octout 902 04 Halt 6 5 000 If we executed this a second time the number malinot beford. This is because of stored procedures being destroyed at ter Halting.

		1	
	No.	1	
2			
3			
			1
4	6.6		
Mas	Instruction	Malbox	Description
130	Input Store	97	Give 1st Number
and the	Ingut Store	98	Give 2nd Number
100	Input Store	99	Give 3rd number
Section 1	Subtract	98	Comparethird and Second
	Branch HVegatia	15	If Third 7 Second
	Load	99	loud third
	Subtract	97	Conque thidnith First
	Breicht	13	Go to the output code
	Load	99	First is the maxin on
	Branch	21	Go to Dutpt code
	Load	98	Load Second
	Subtract \	97	Conjure Second and First
	Brackit regative	21	if second 7= First
	Load	98	Secondistle meximum
	Branch	21	Gotooutp+Code
	Load	97	Firstistle Maximon
	Output		Print Maximum
	State Halt 1	+1	Stop
	The three numbers are stored in 97.98 and 99		
	Then compare thenumbers with subtraction if I		
	compelit withful istrumber It it's again than the first		
	tuntu unboar 79 is greatest		
	1.e. If one number is greater than another such that The y-x yields a negative number So x must be greater. If you y-x yields a positive number y must be greater.		
	X/y them y-x yields a negative number Soxmist		
	pequater. It was you yields a positive number youst		
	be greater.		
The state of the s			

15-21 6.15 execute order 1
else execute order 2 end if Stop IF: test contition (x = = y)
SUB: Y
JMPELSE LDX APD Y STOX FD/F ELSE SUBX STOY ENDIF HALT

6,16 Body XYLDAX AddY Store X ADDY 570X LDAX Performoperations Subtracty SUBY Ship out of loop it X!= Y SKNZ Junpto Loop body JMP XY Endot Loop Output LOAX OUT We could snap numbers in storage locations by using sorething similar to bubble sort 6.18. There are 10 opcode prales so We wouldneed at les, 4bits forthat portion. This would leave 12 bits for mailboxes
Some could accomadate 1012 mailboxes of 4096 anailbo We could a cromadate 2048 satisf two s Complement becase 1 bit would be sed for negative numbers. 6.19. Well't may be easier to remember And if the could stop fle exectionby reaching an empty mailbox. Borg

