				SHEET	10
#	Hex	Binare		Assembly	Description
10	2e			Load 14	Load the value of memory address 14 into the accumulator
	60	101 1	0000	Equal #0	
2	104		2100		Jump to instruction 4
3	eq	111 0 0	000	Halt	Stop execution
4	28	001 0 1	111	Load 15	Load the value of memory address 15 into the accumulator
5	6P	011 0 1	111	Add 15	Add the value of memory address 15 to the accumulator
6	48	010 0 1	111	Store 15	Store the value of the accumulator in memory address 15
7	2e	001 0 1	110	Load 14	Load the value of memory address 14 into the accumulator
8	91	100 1 0	001	Sub #1	Subtract 1 to the value of the
9	41e	010 0 1	110	Store 14	Store the value of the accumulator
10	cb		011	Jump -11 -	Jump to instruction 11
111	00	0000		DATA #0	This memory address stores value of
					when execution starts
12	00			DATA #0	AIRPO PERFICIALIZADA DE LA CONTRACTOR DE
13	00	0000	0000	DATA #0	This memory address stores value 0 when execution storts
111	06	000 0	0110	DATA #6	This memory address stores value 6 when execution starts
15	01	000 0	1000	DATA #1	This memory address stores value 1 when execution storts
ACC		6 1 2 6	5	5 2 4 5	4 4 4 8 4 3 3 8 16 3 2
		2 16 32 3	2 1	1 32 64 1	
		2 10 02		1 32 01	
MEN	1 [14]	6 5 4 3	8	1 0	
	1 [14] 1 [15]		2		
	11	6 5 4 3	2	1 0	
	11	6 5 4 3	2	1 0	
	11	6 5 4 3	2	1 0	
	11	6 5 4 3	2	1 0	
	11	6 5 4 3	2	1 0	

The program starts loading the value of an memory address 14 (value 6) into the accumula-100 tor. Then we see if this value contained in eq the accumulator is equal to 0. 6 is not ex equal to 0, so we go to jump instruction, ac which indicates us to go to instruction 4. 6 There we load the value of memory address m 15 (value 1) into the accumulator. Then the SC value of memory address 15 (value 1) is added 17 so now the accumulator takes the value 2. ch This value (2) is stored in the memory address 15. C Then the value of the memory address 14 (value 6) is loaded again into the accumulator and n we subtract 1 from it, so the result is 5. P 5 is stored in the memory address 14. Afterwards we jump to instruction 11 which indicates us to go to the memory address O There, 5 is loaded into the accumulator. It is compared with the value 0 and as 5 ± 0, kie perform all other steps again

and again. The loop ends when O is loaded into the accumulator because 0 is equal to 0 so the program stops the execution. As we see, the values of memory address 14 change by 1, starting with 6,5... and ending with O. The values of memory address 15 change in this form 2" so in the end it is 26 = 64 If the value stored in memory cell 14 is changed to 10 before execution starts, we can understand that the program will take longer to be executed. The values of memory address 14 will go by the same pattern as before (xill be changed by 1) so 10, 9, 8... O while the values of memory address 15 will be doubled until the value of memory address 14 goes to O. It will Start with I and the last value will be 2 10 = 1024