

Location	Instruction		AC
100	5103	BSA 103	FFFE
101	7200	CMA	
102	7001	HLT	
103	0000	5101	0000 0001
104	7800	CLA	
105	7020	INC	
106	C103	BUN 103 I	

پس از: HALT ستاد AC ، FFFE است.

و کلمه موجود در آدرس ۱۰۳، ۱۰۱ است.

$A - B < 0$:	10	LDA B	
$A - B = 0$:	20	CMA	
		INC	
$A - B > 0$:	30	ADD A	/form A-B
		SPA	/skip if AC pos
		BUN N10	/A-B < 0 to N10
		SZA	/skip if AC zero
		BUN N30	/A-B > 0 to N30
		BUN N20	/A-B = 0 to N20

LDA	A	/ Load
SZA		/ if zero
BUN	NZR	
HLT		/ A zero, product zero in AC
NZR, CMA		
INC		
STA	CTR	/ Store - A in Counter
CLA		/ start with AC = 0
LOP, ADD	B	/ Add Multiplicands
ISZ	CTR	
BUN	LOP	/ Repeat Loop A times
HLT		
A, DEC	-	/ Multiplier
B, DEC	-	/ multiplicand
CTR, HEX	0	/ counter
END		

Calling

BSSA	CMP	CMA
HEX	100	INC
DEC	32	STA CTR
		LOP, LDA PTR 1
		CMA

Subroutine

CMP, HEX	0	STA	PIR 1
LDA	CMP 1	ISZ	PTR
STA	PTR	ISZ	CTR
ISZ	CMP	BUN	LOP
LDA	CMP 1	ISZ	CMP
		BUN	CMP 1
		PTR,	-
		CTR,	-