

1.0 BSA 1.3

1.1 CMA

1.2 HLT

1.3 1.1

1.4 CLA

1.5 INC

1.6 BUN 1.3 I

AC → FFFE

AC → 1000

AC → 0001

LDA B

CMA

INC

ADD A

S PA // skip if $AC(15) = 0 \Rightarrow$ BUN 10 if $AC < 0$

BUN 10

SZ A

BUN 30

BUN 20

ORG 100

LDA A

SZA

BUN OPR

STA P

HLT

OPR, CMA

INC

STA CTR

CLA

LOP, ADD B

ISZ CTR

BUN LOP

STA P

HLT

A, DEC 4

B, DEC 5

P, HEX 0 // the Product will be stored here

CTR, HEX 0

END

9-15

Main Program:

BSA ACM // calling Array complement subroutine

Men — // Pointer Address

des — // number of elements

function:

ACM, Men 0

LDA ACM I

BUN ACM I

STA PTR

PTR, HEX 0

ISZ ACM

CTR, HEX 0

LDA ACM I

CMA

INC

STR CTR

ISZ ACM

LOP, LDA PTR I

CMA

INC

STR PTR I

ISZ PTR

ISZ CTR

BUN LOP