

Register	rr
X	00
Y	01
SP	10
PC	11

Postbyte for 5-bit Offset: rr0nnnnn

Postbytes for 9-bit Offset: 111rr00n nnnnnnnn

Postbytes for 16-bit Offset: 111rr010 nnnnnnnn nnnnnnnn

- Convert the program below to a listing file. Complete the addresses and contents columns. You do not need to repeat the source code.

				Addresses	Contents
limit	EQU	65			
	ORG	\$3000			
length	DC.B	36		3000	24
grades	DC.W	\$3100		3001	31 00
count	DS.B	1		3003	—
	ORG	C000h			
	LDX	grades		C000	FE 30 01
	CLR	count		C003	79 30 03
	LDAB	#limit		C006	C6 41
	LDAA	length		C008	B6 30 00
again	BEQ	done		C00B	27 0B
	CMPB	0,x		C00D	E1 00
	BLO	skip		C00F	25 03
	INC	count		C011	72 30 03
skip	INX			C014	08
	DECA			C015	43
	BRA	again		C016	20 F3
done	SWI			C018	3F

List the symbols and their values below:

again : 0000 C00B
 count : 0000 3003
 done : 0000 C018
 grades : 0000 3001
 length : 0000 3000
 limit : 0000 0041
 skip : 0000 C014