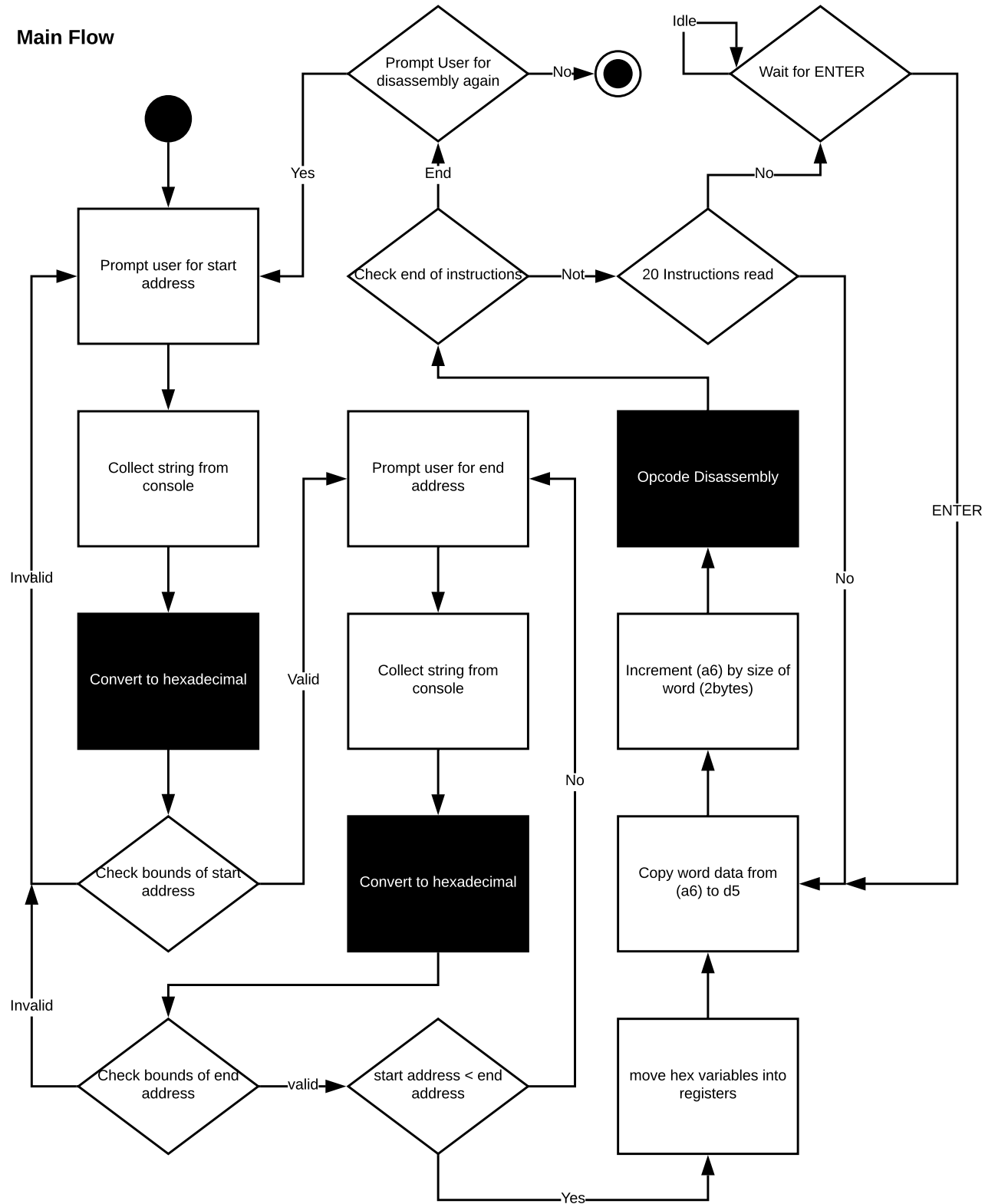
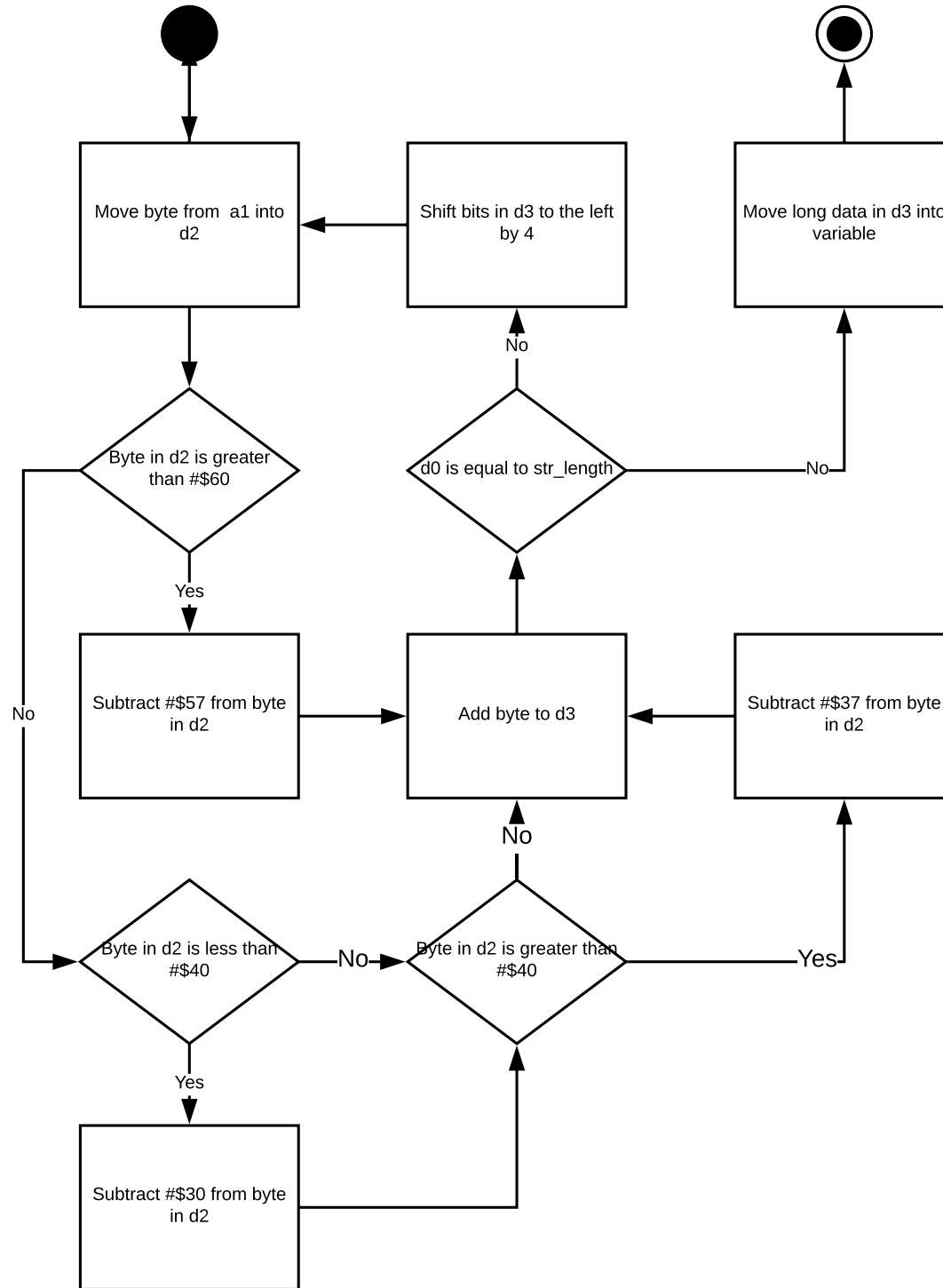


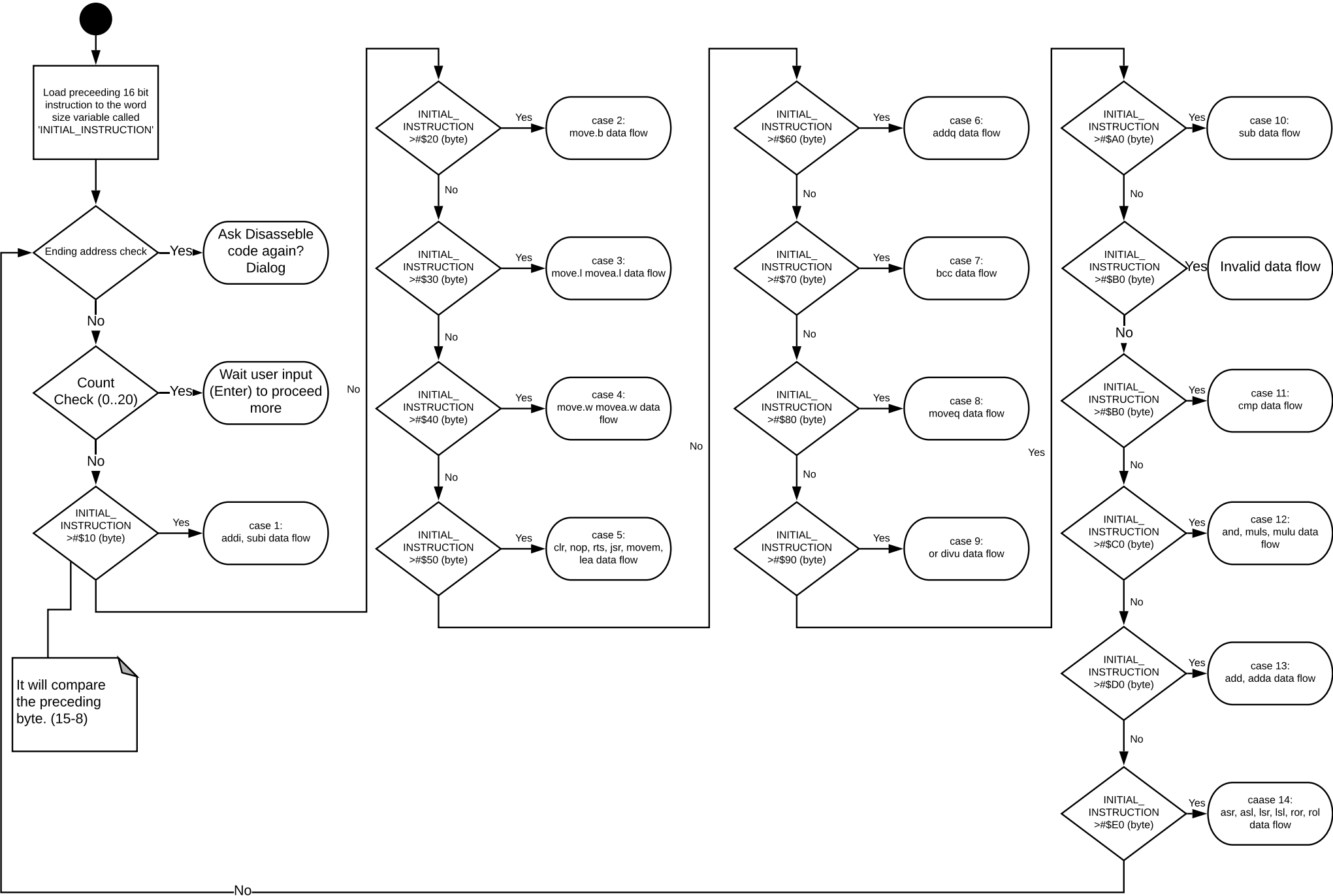
Main Flow



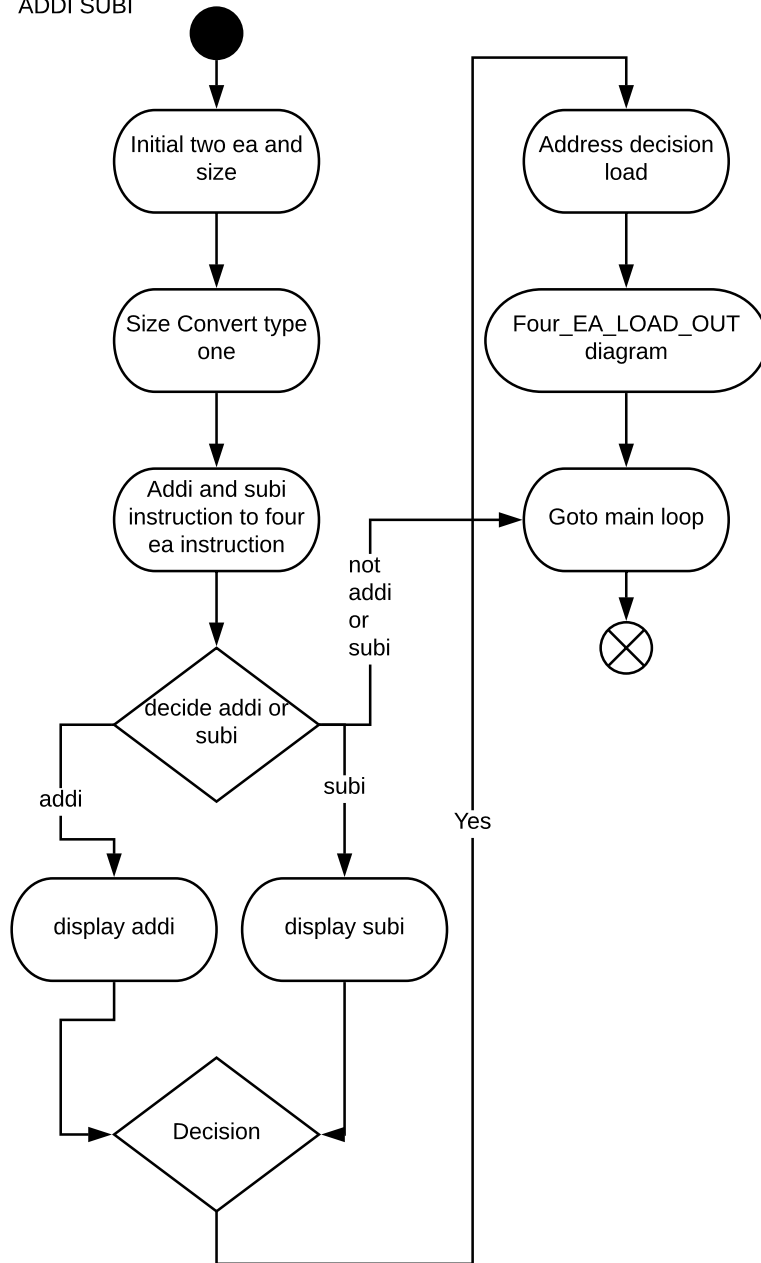
String to Hex



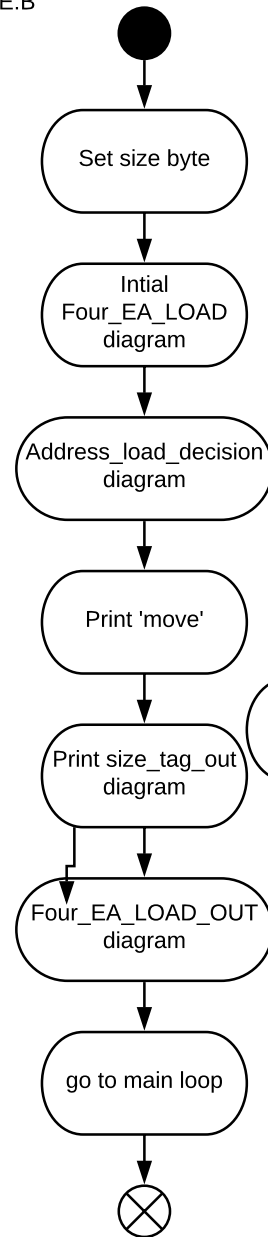
Opcode Disassembly
(Main loop)



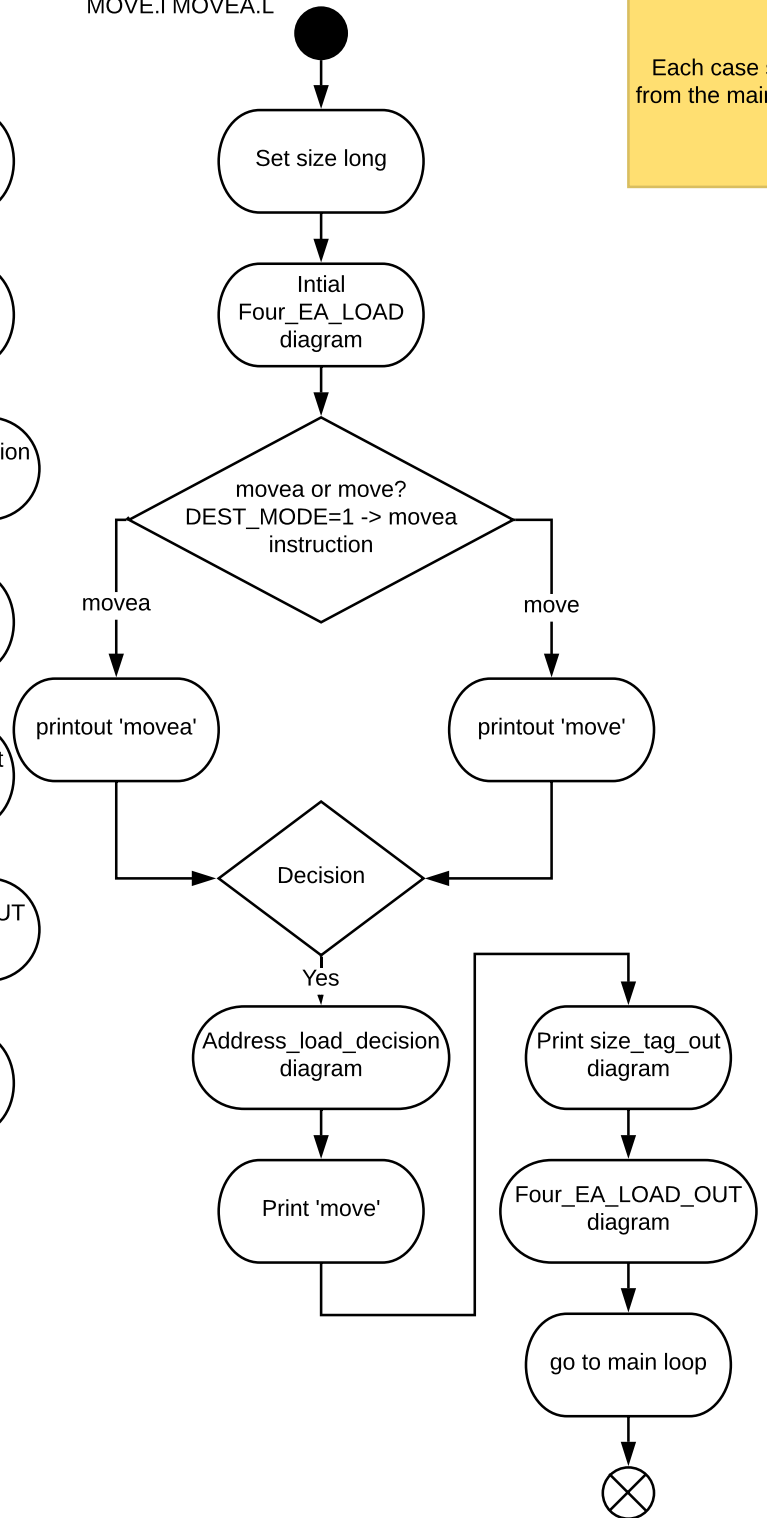
case 1
ADDI SUBI



case 2
MOVE.B



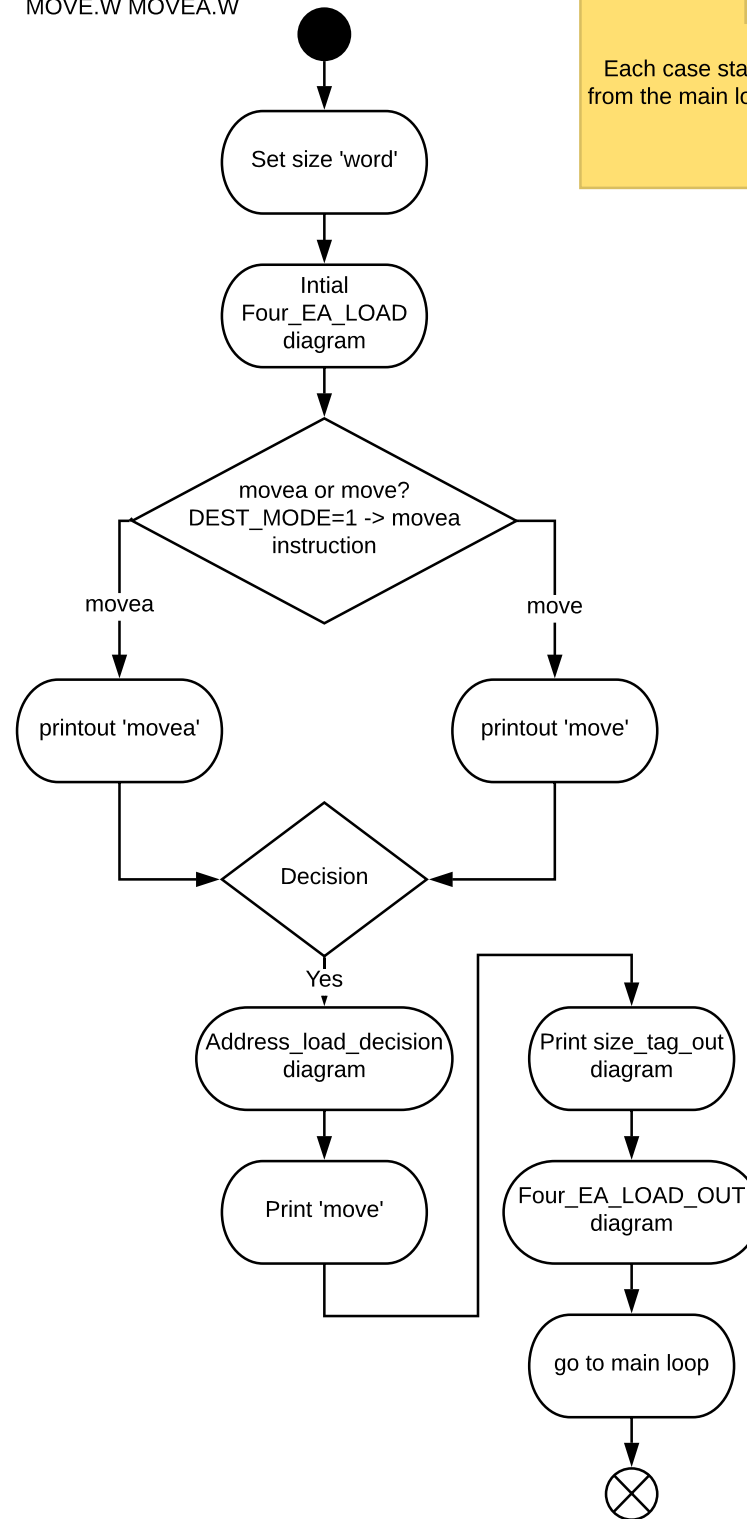
case 3
MOVE.I MOVEA.L



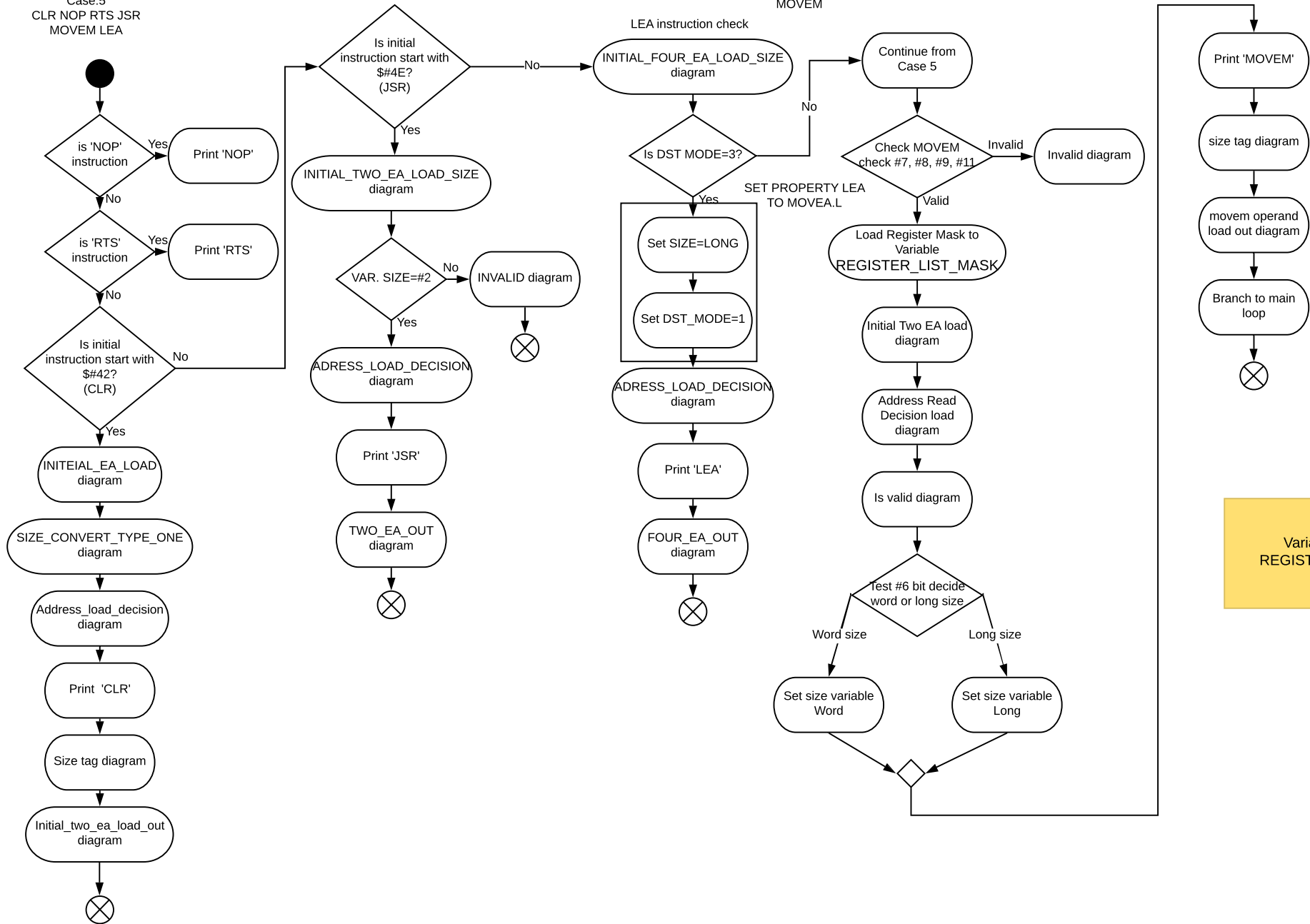
Each case start from the main loop

case 4
MOVE.W MOVEA.W

Each case start
from the main loop



Case:5
CLR NOP RTS JSR
MOVEM LEA

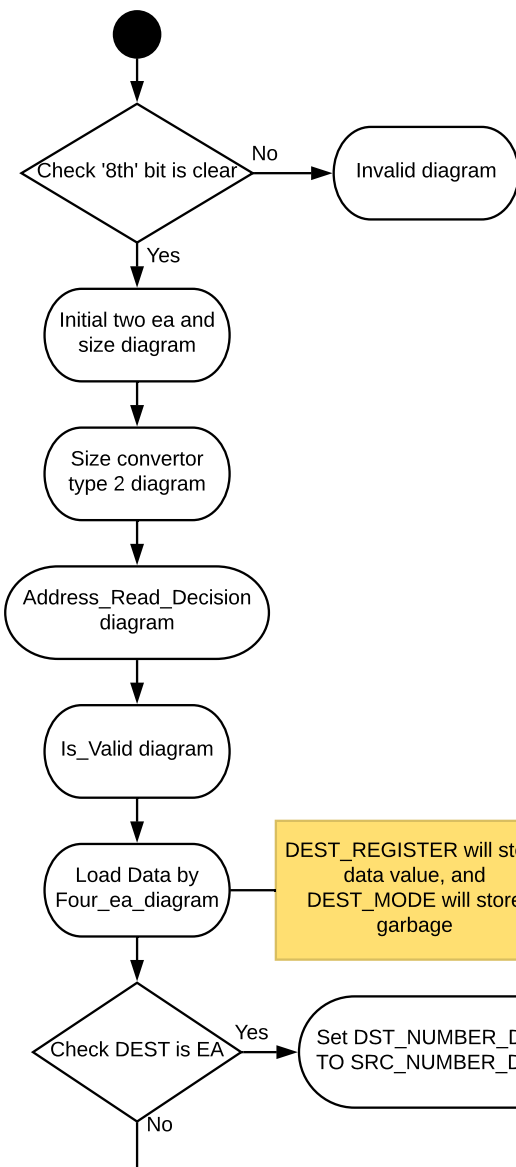


Each case start from the main loop

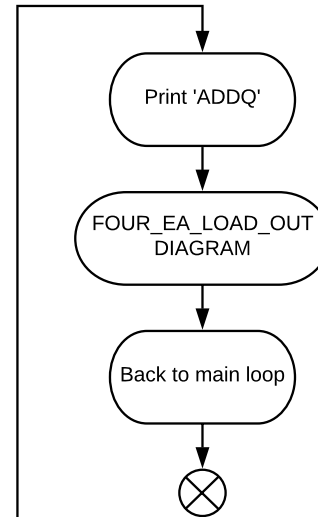
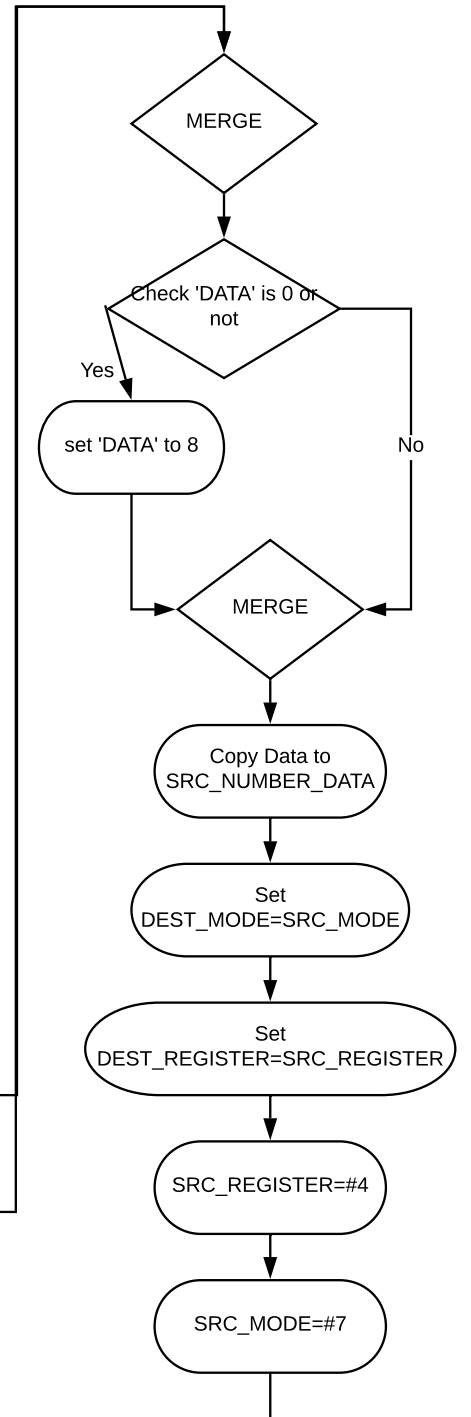
Variable to invoke
REGISTER_LIST_MASK

ADDQ

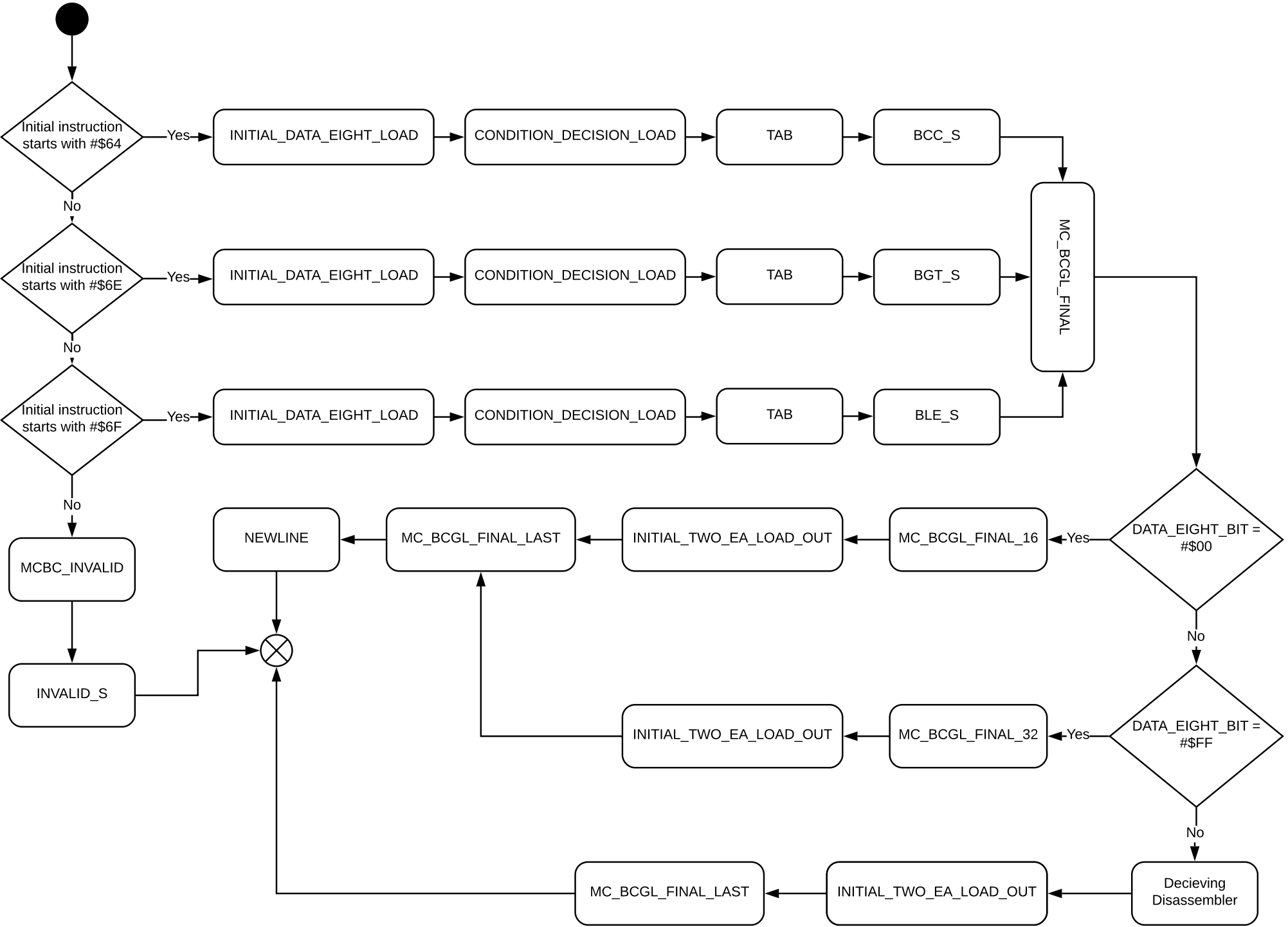
Case 6



DEST_REGISTER will store data value, and DEST_MODE will store garbage

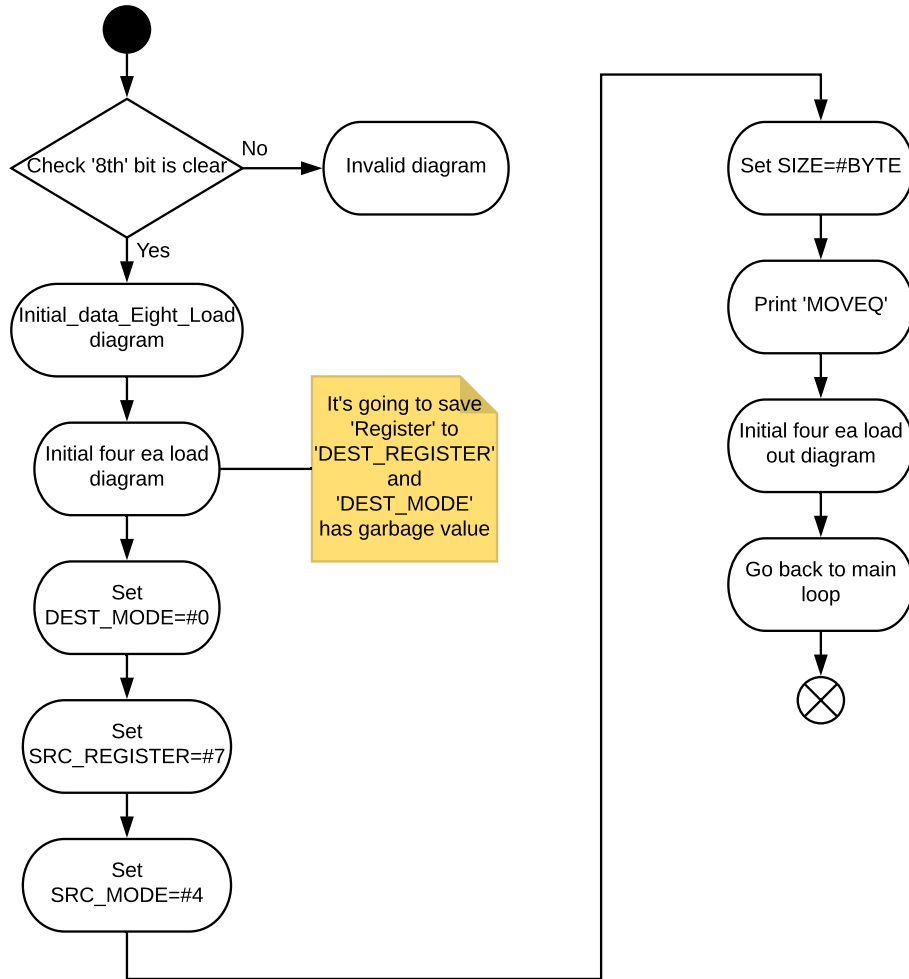


To disassemble this, we invoke the existing functions, so, we make ADDQ function to have similar property with move.b, and we print out the operands.

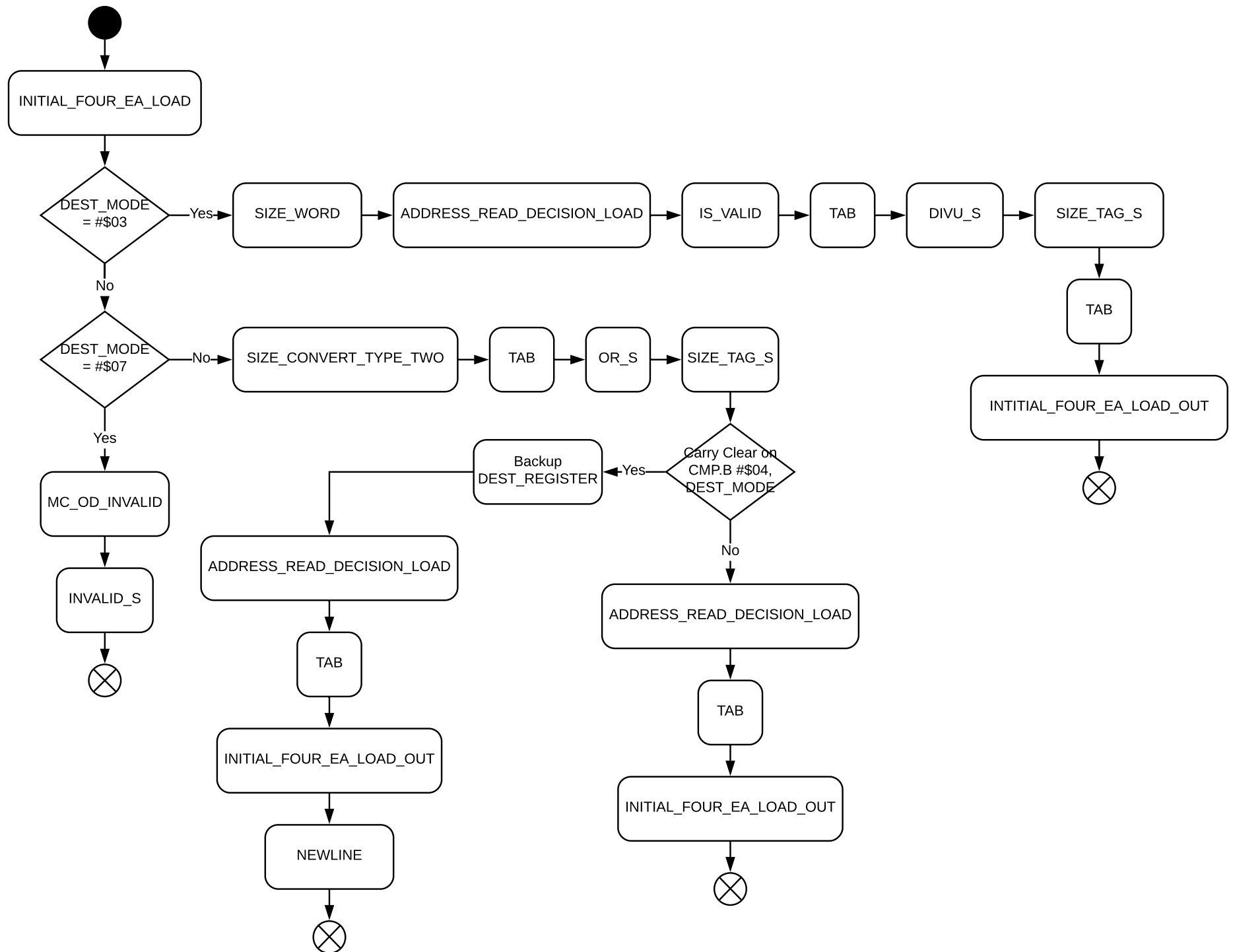


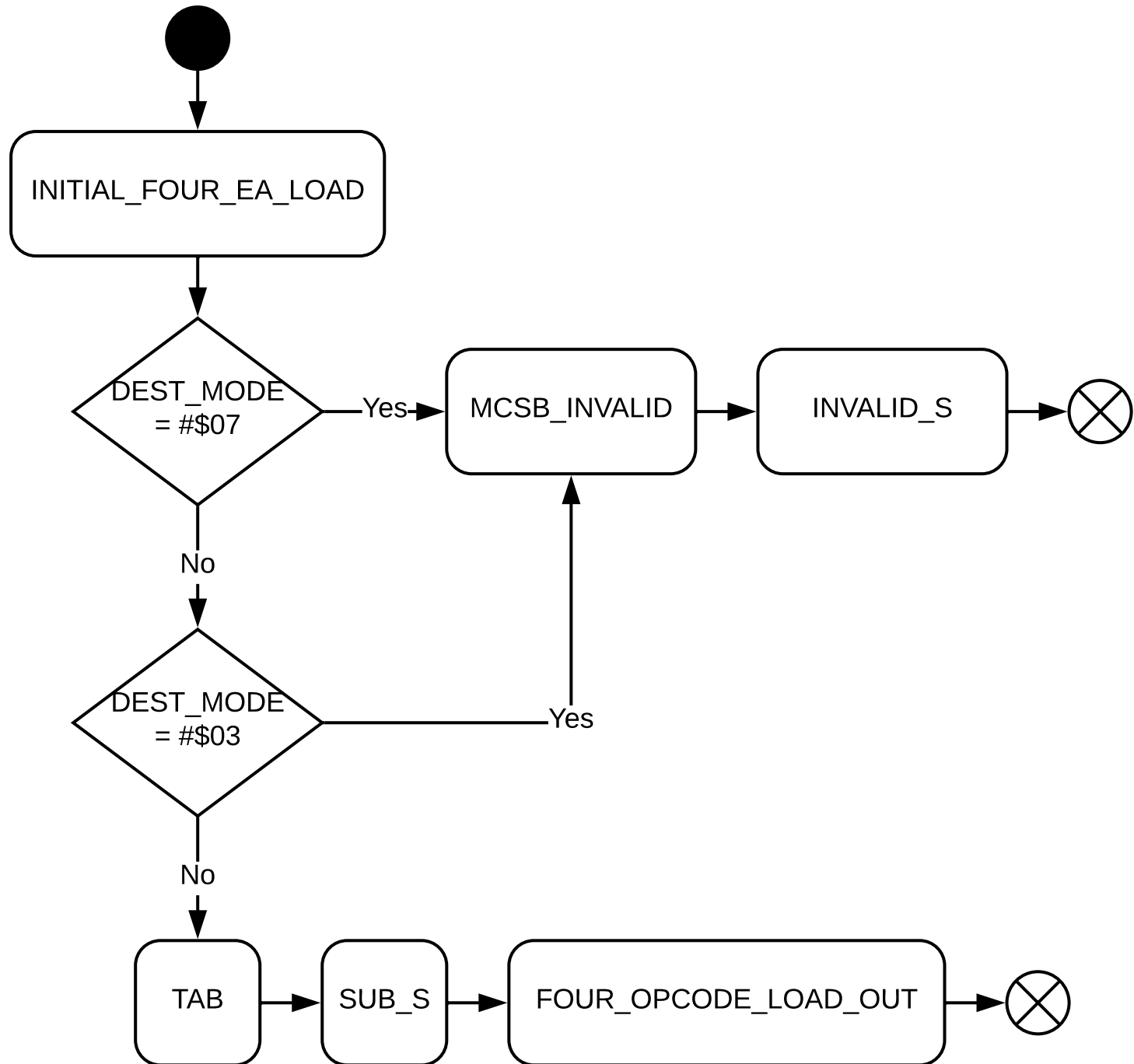
MOVEQ

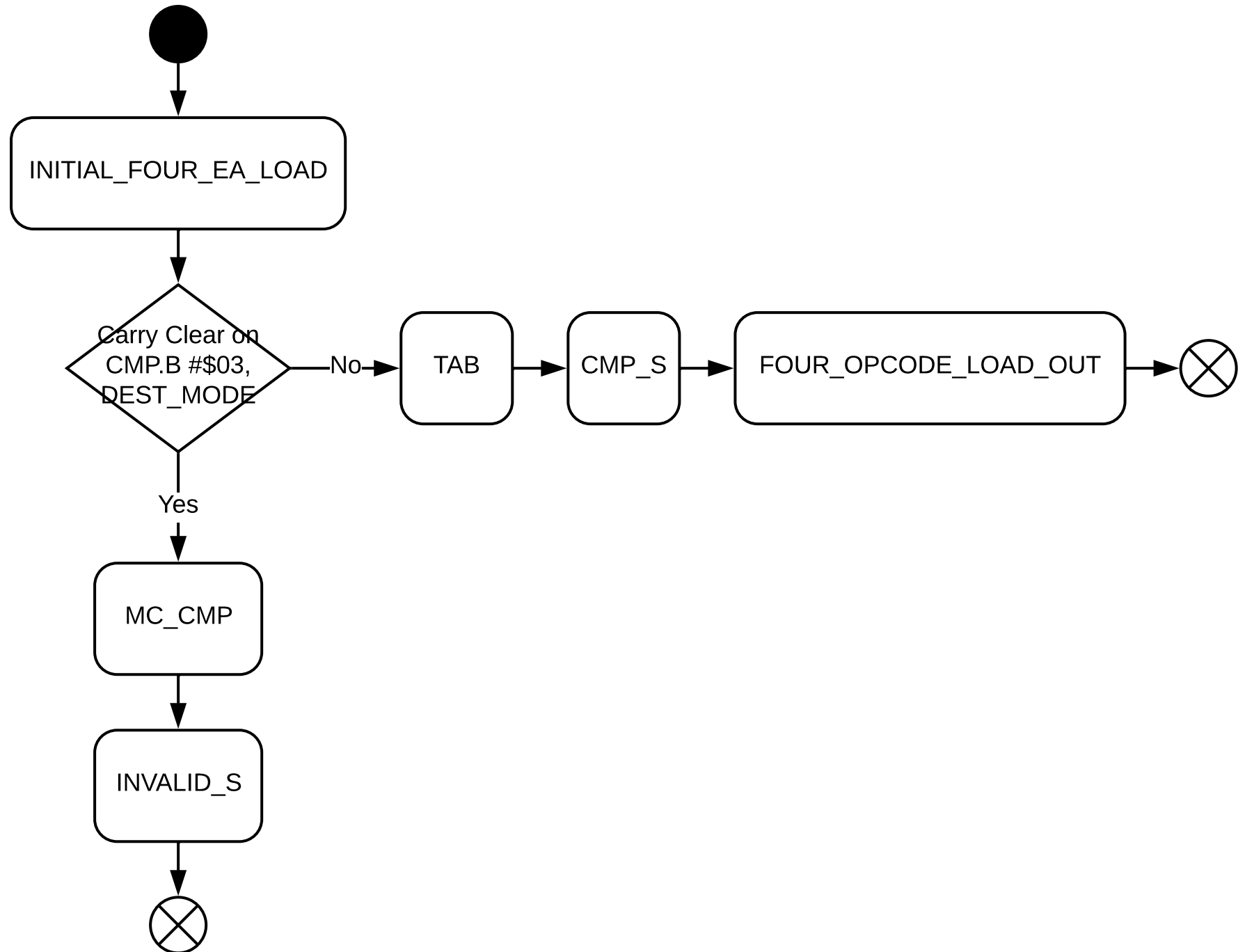
Case 8

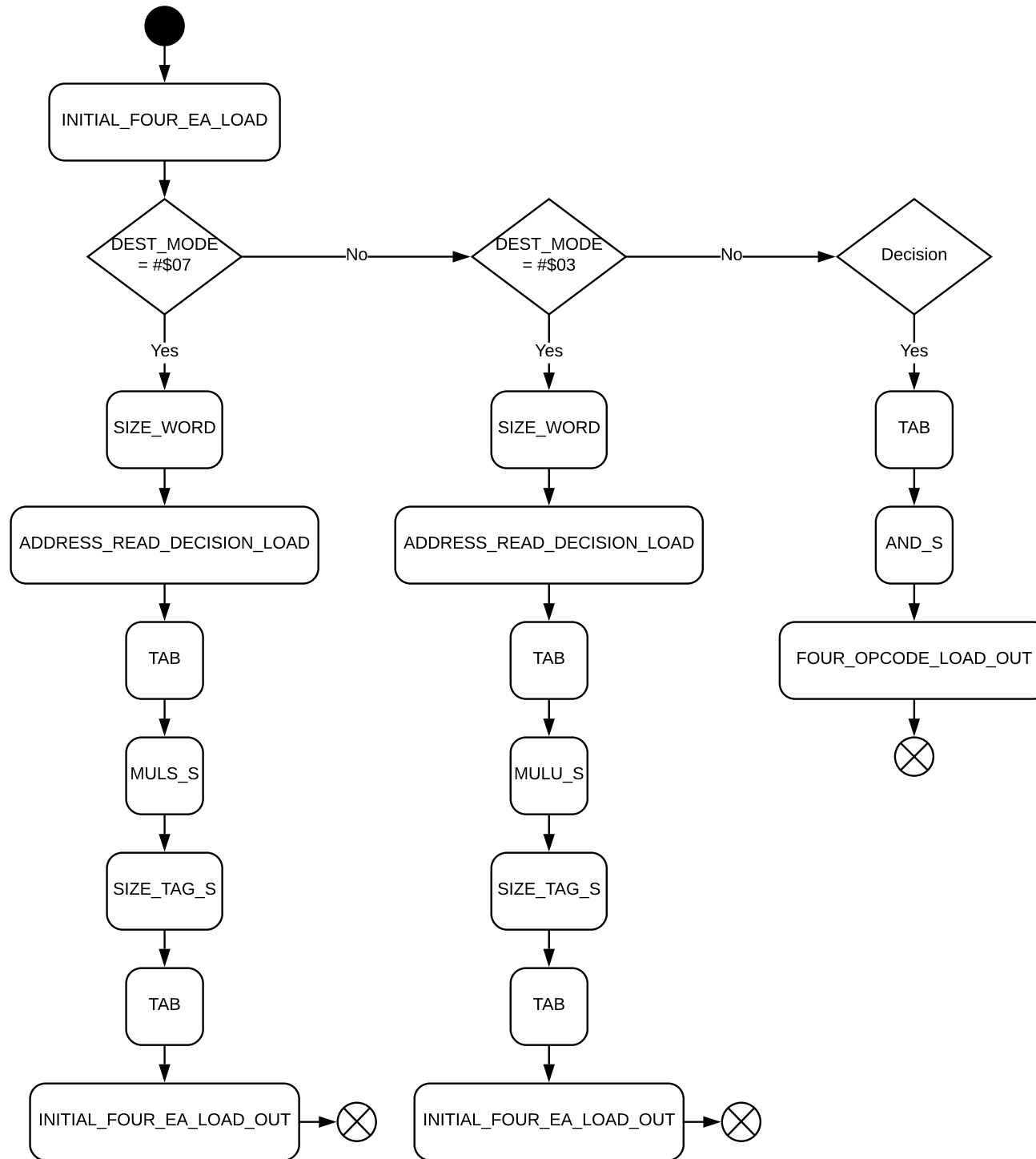


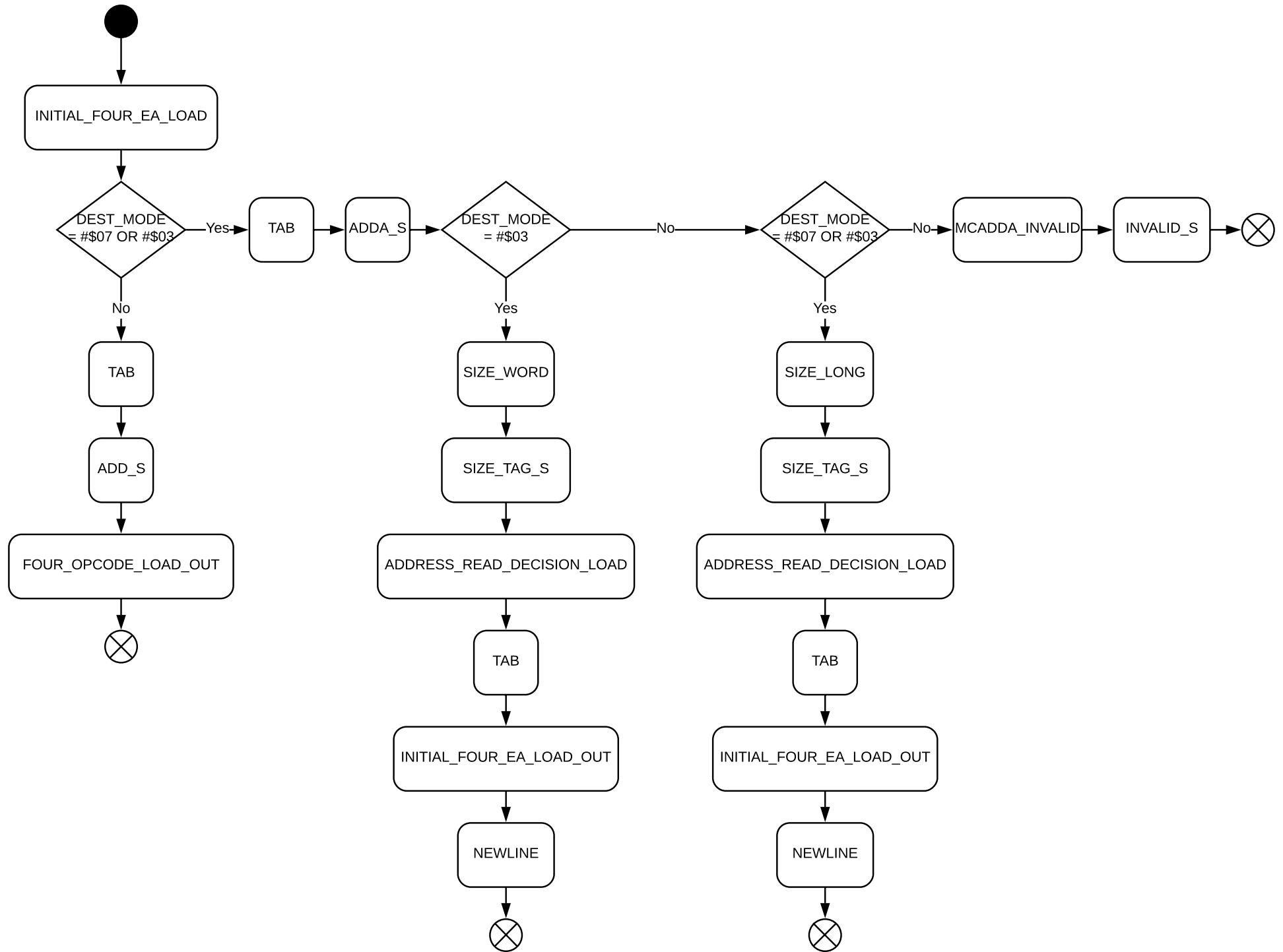
Variable Invoking
SIZE
SRC_MODE
SRC_REGISTER
DEST_MODE (garbage)
DEST_REGISTER







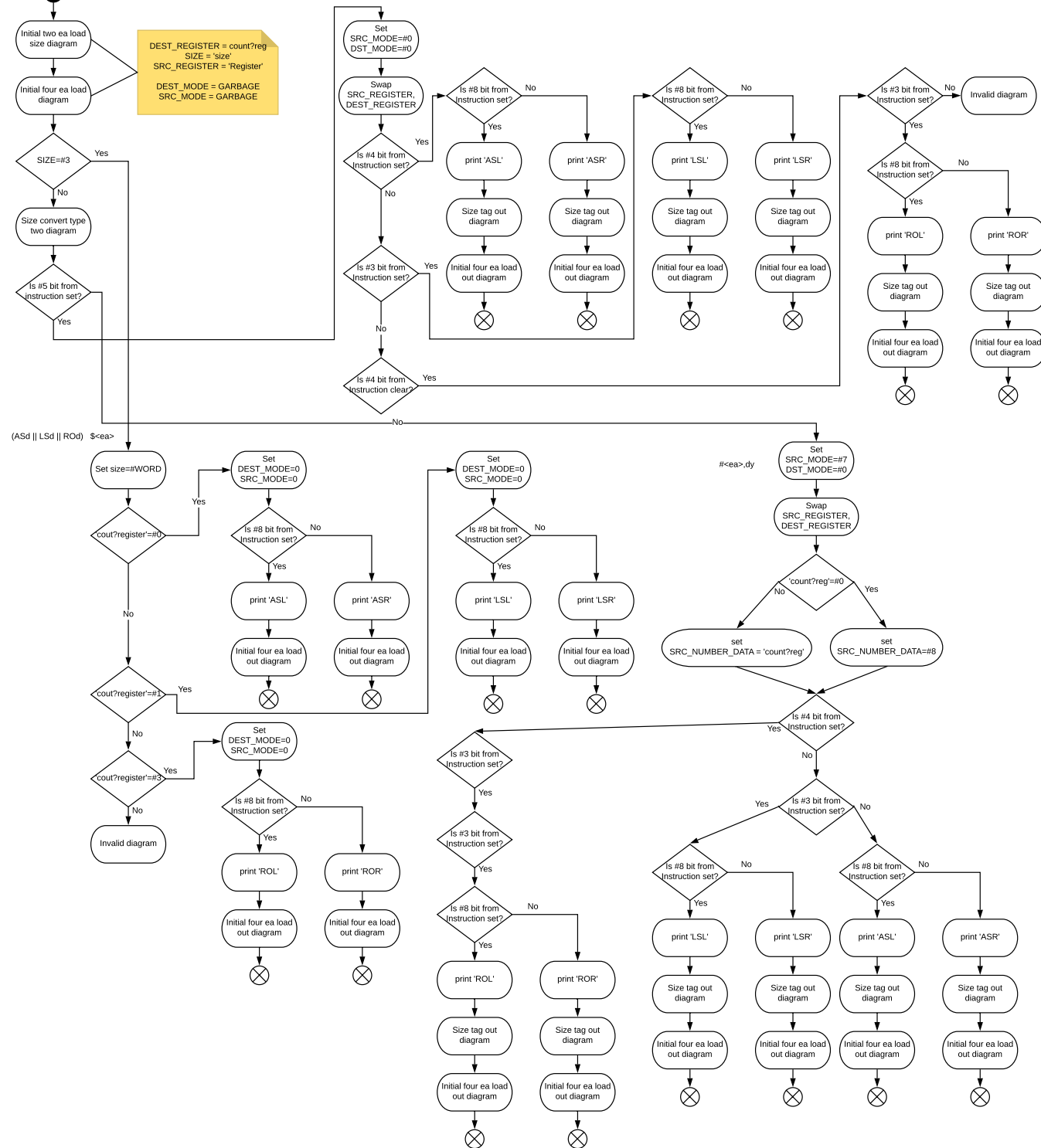




ASR ASL LSR LSL ROR
ROL

Case 14

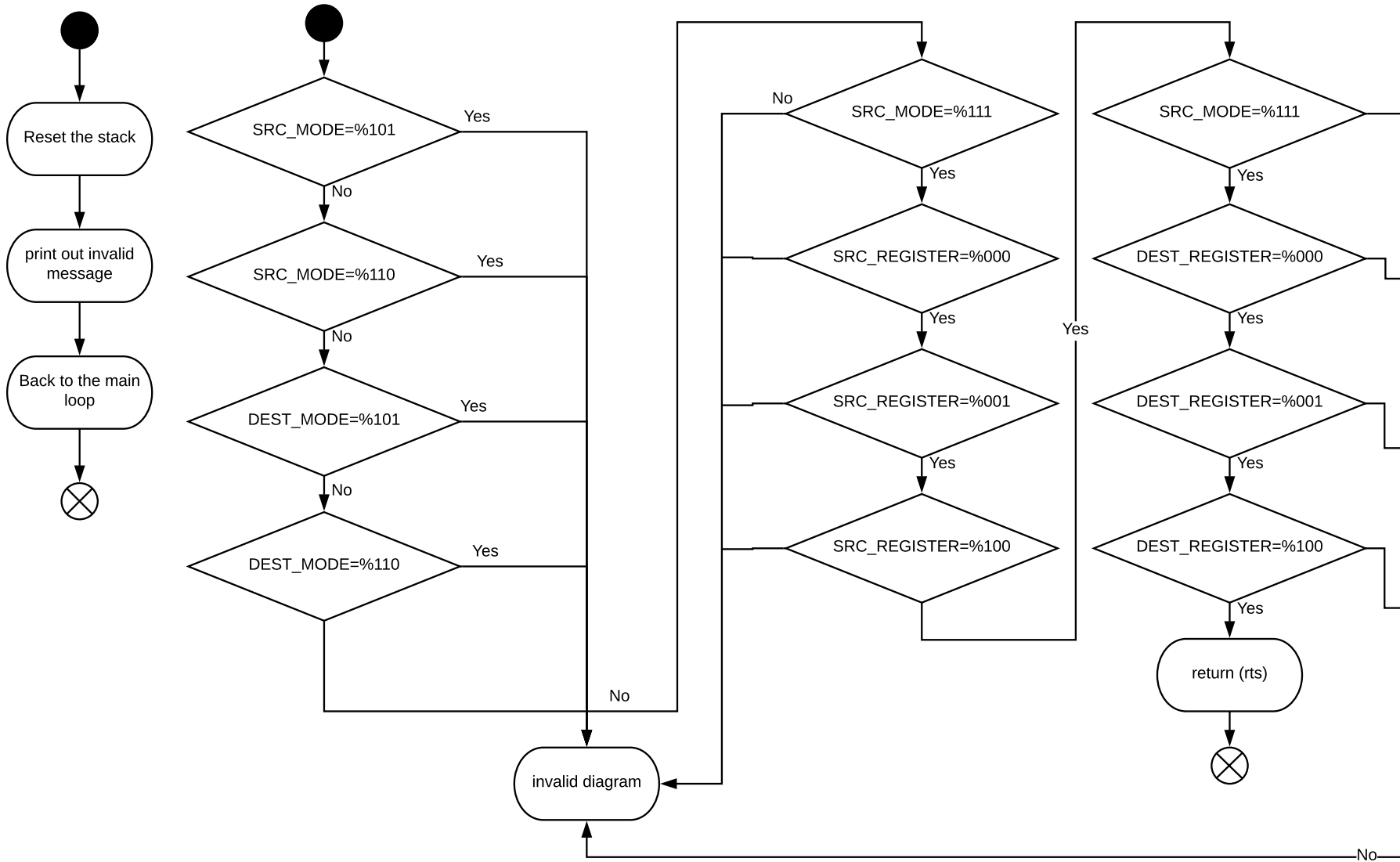
dx,dy



Invalid diagram

is validate diagram

Usage
BSR_INVALID_S
BSR_IS_VALID



15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
										Src Mode			Src Register		

Load initial two ea

15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
								size		Src Mode			Src Register		

Load initial two ea and size

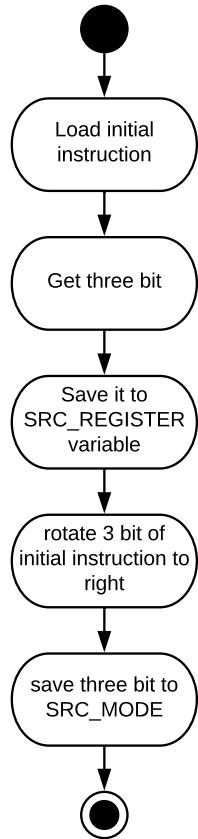
15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
				Dest Register			Dest Mode			Src Mode			Src Register		

Load initial four ea

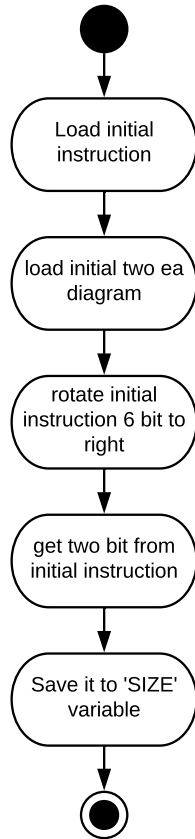
15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
								Data							

Load Data Eight Load

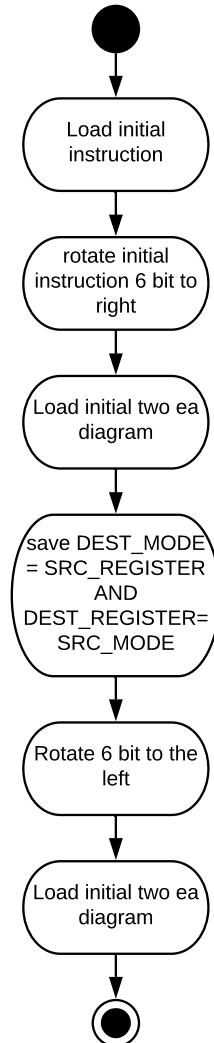
load initial two ea



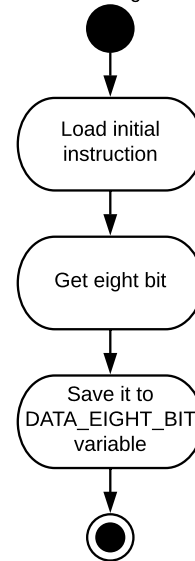
Initial two ea and size



load initial four ea



Load Data Eight Load



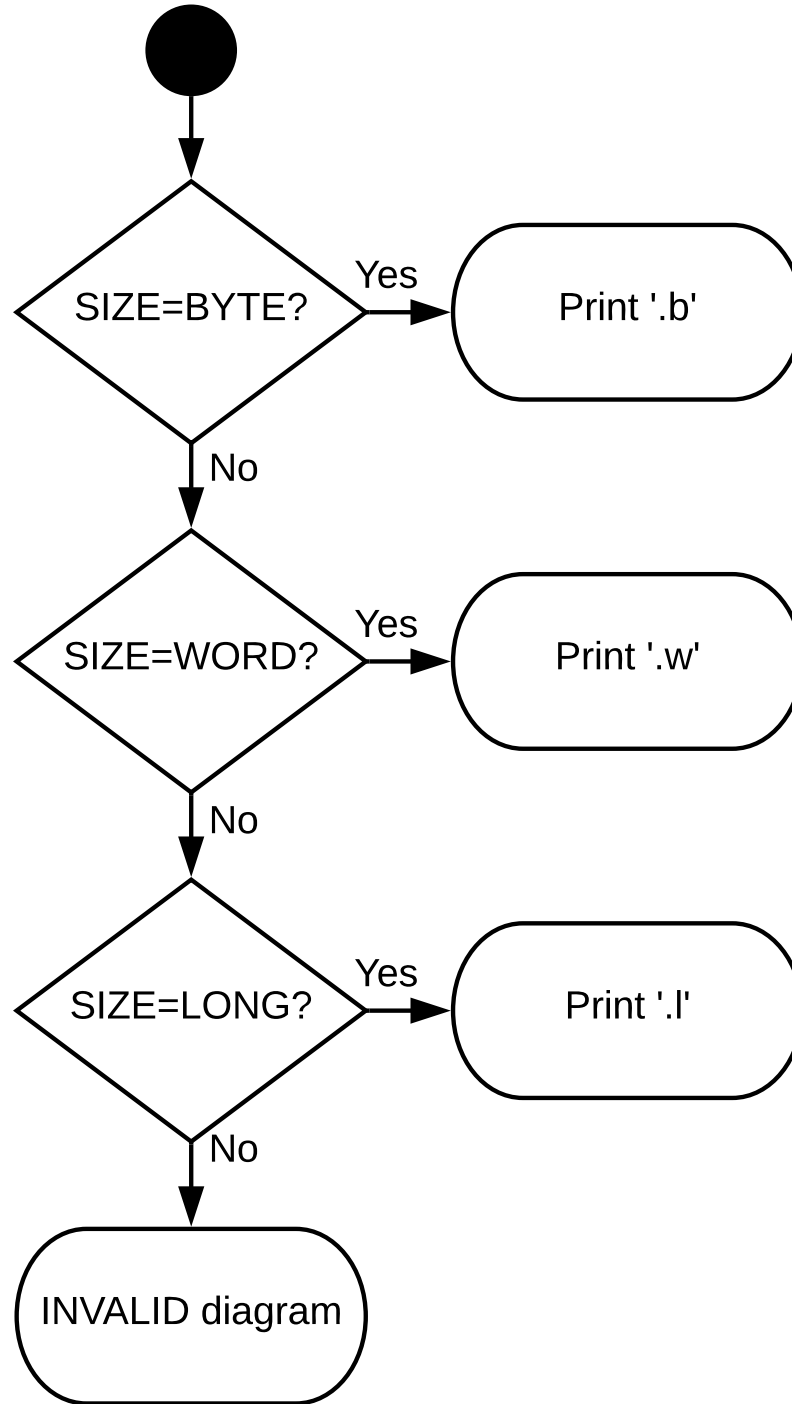
load initial two ea ->
BSR INITIAL_TWO_EA_LOAD
set ->
SRC_MODE
SRC_REGISTER

load initial two ea and size ->
BSR INITIAL_TWO_EA_LOAD_SIZE
set ->
SRC_MODE
SRC_REGISTER
SIZE

load initial four ea =
INITIAL_FOUR_EA_LOAD
SRC_MODE
SRC_REGISTER
DEST_MODE
DEST_REGISTER

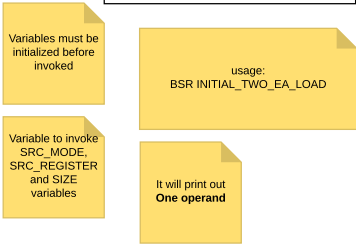
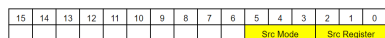
Load Data Eight Load =
INITIAL_DATA_EIGHT_LOAD
DATA_EIGHT_BIT

it will print out the size tag
according to the value in
SIZE VARIABLE



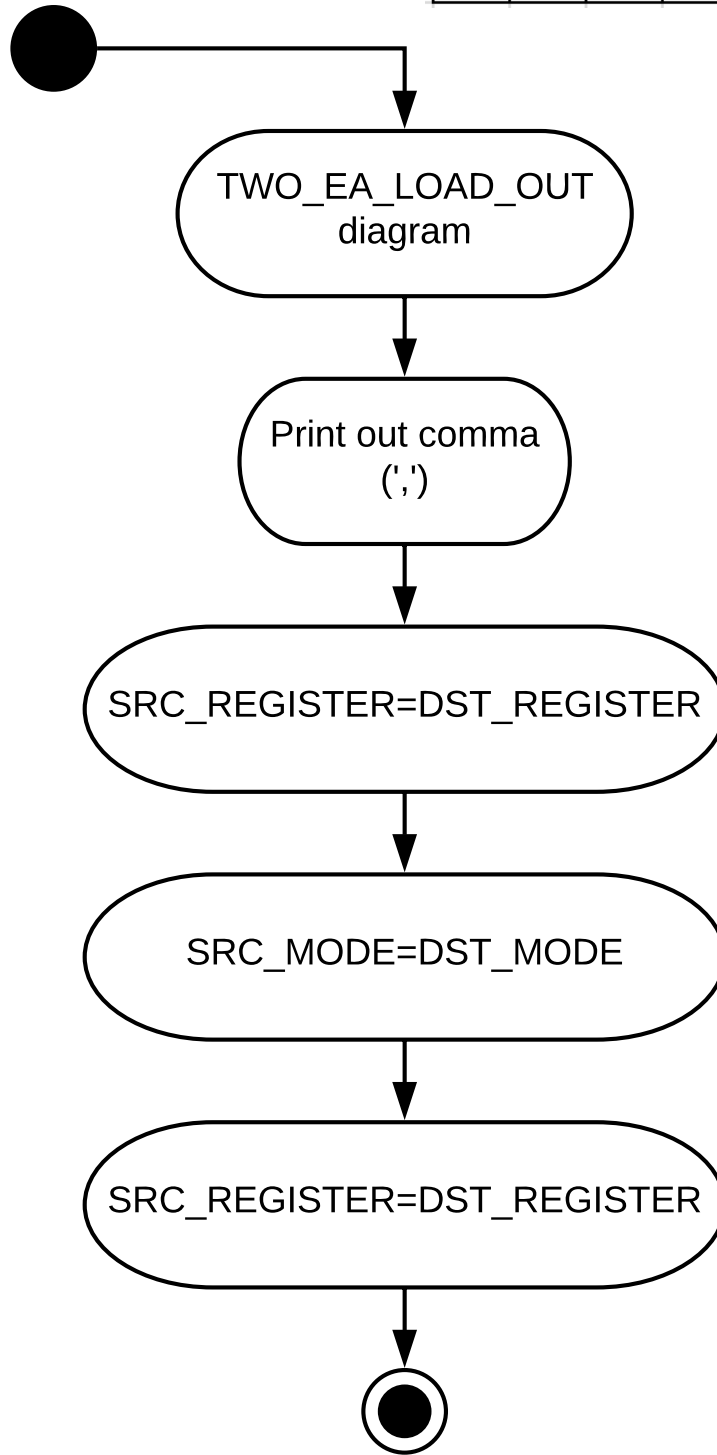
This is size out
instruction

Default size
instrauction
#\$01 - BYTE
#\$11 - WORD
#\$10 - LONG



Initial four ea out

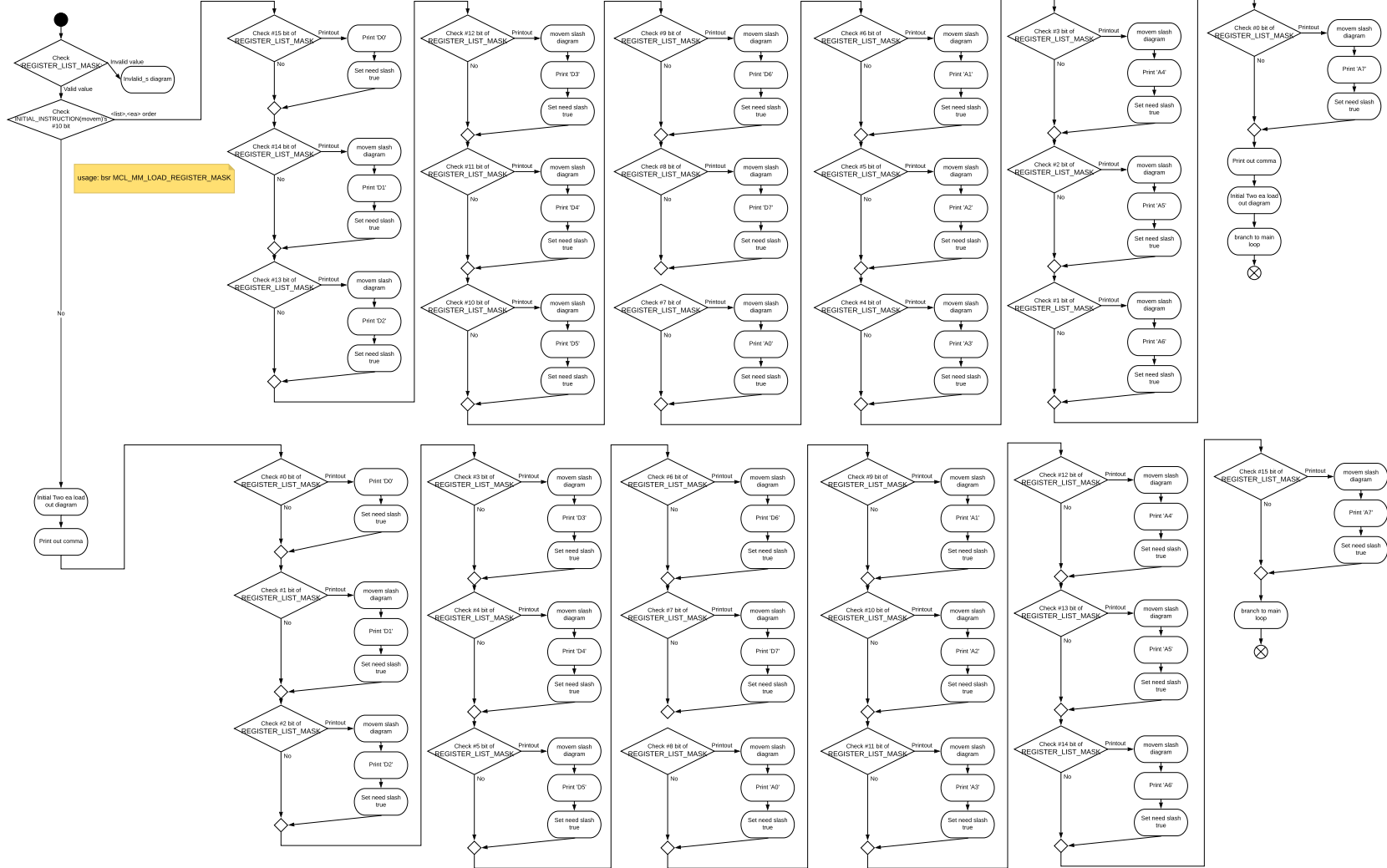
15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
				Dest Register			Dest Mode			Src Mode			Src Register		



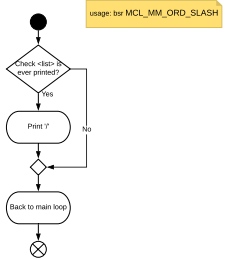
Usage:
BSR INITIAL_FOUR_EA_LOAD_OUT

It will print out
two operands

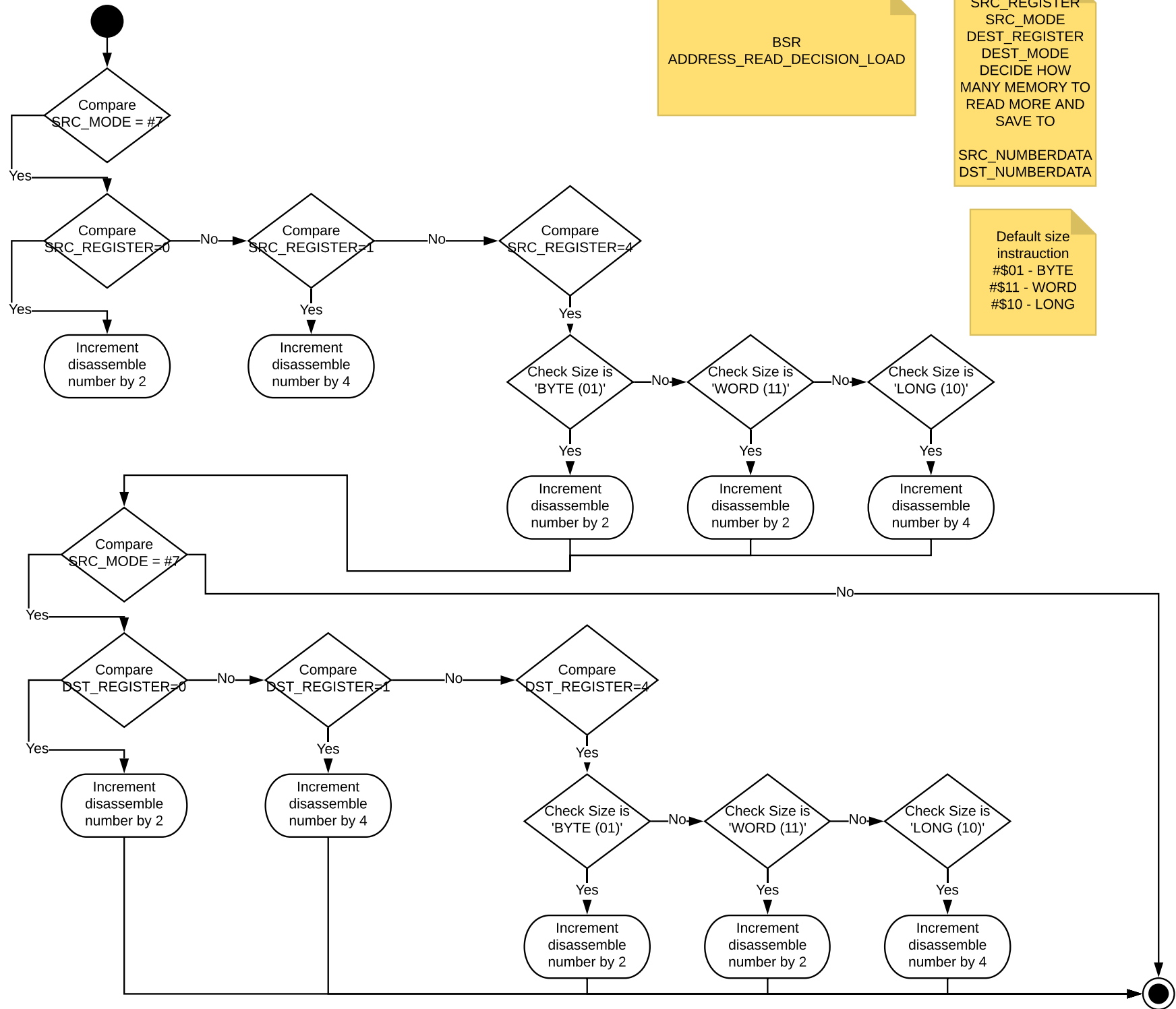
MOVEM load operand out diagram



movem slash diagram



ADDRESS_READ_DECISION_LOAD

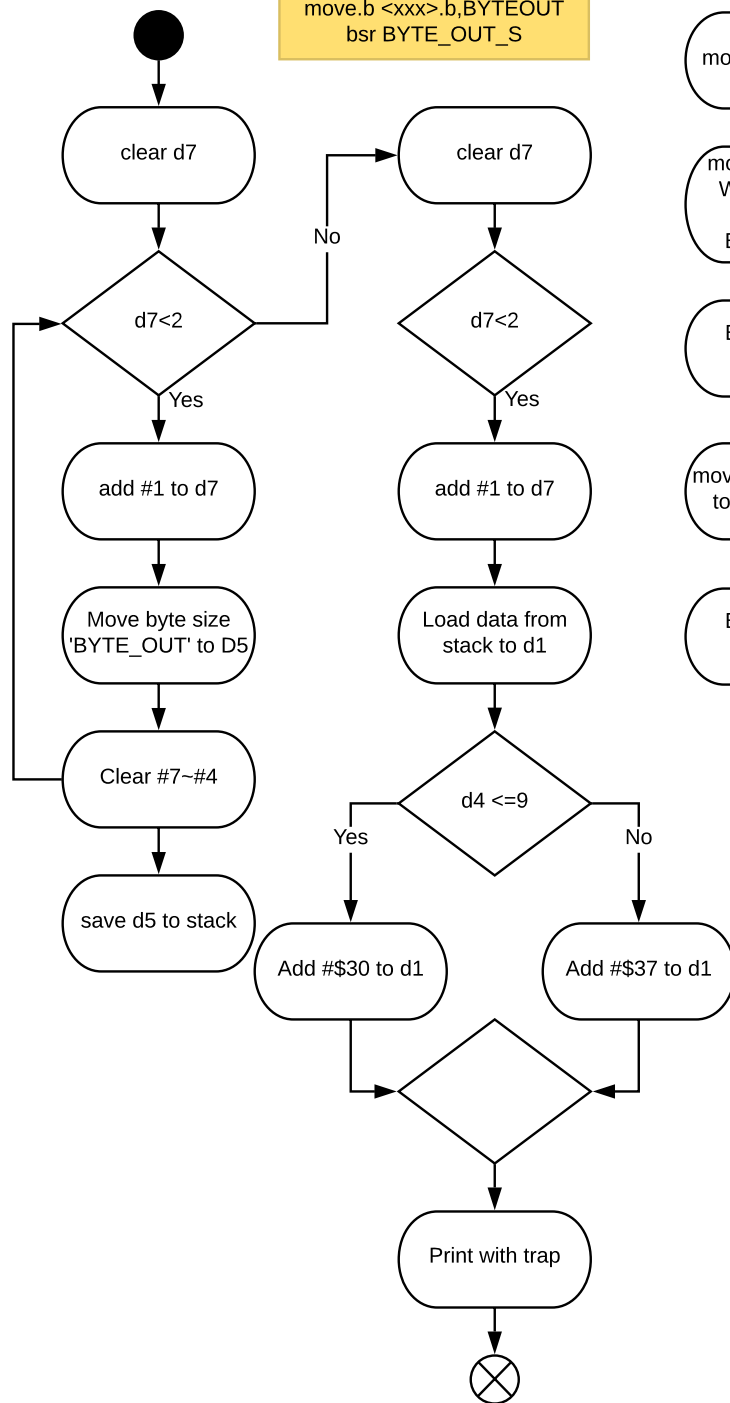


BSR
ADDRESS_READ_DECISION_LOAD

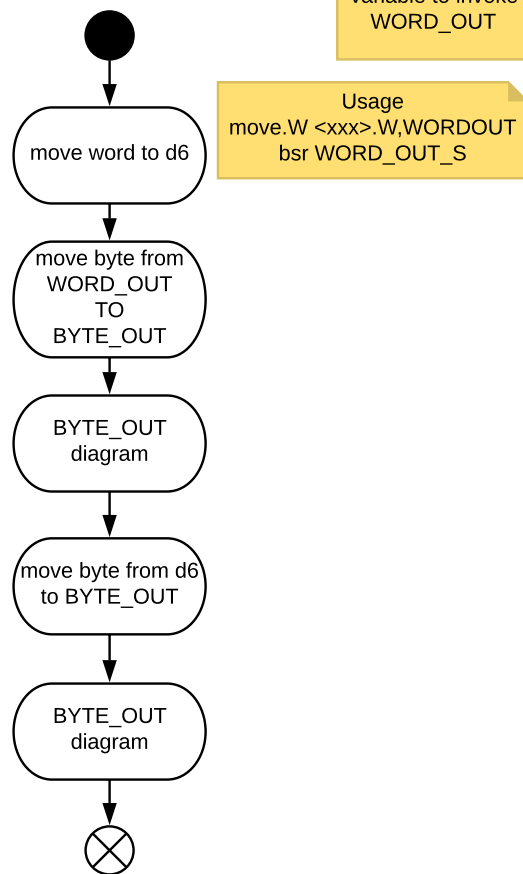
Base on
SRC_REGISTER
SRC_MODE
DEST_REGISTER
DEST_MODE
DECIDE HOW
MANY MEMORY TO
READ MORE AND
SAVE TO
SRC_NUMBERDATA
DST_NUMBERDATA

Default size
instruction
#\$01 - BYTE
#\$11 - WORD
#\$10 - LONG

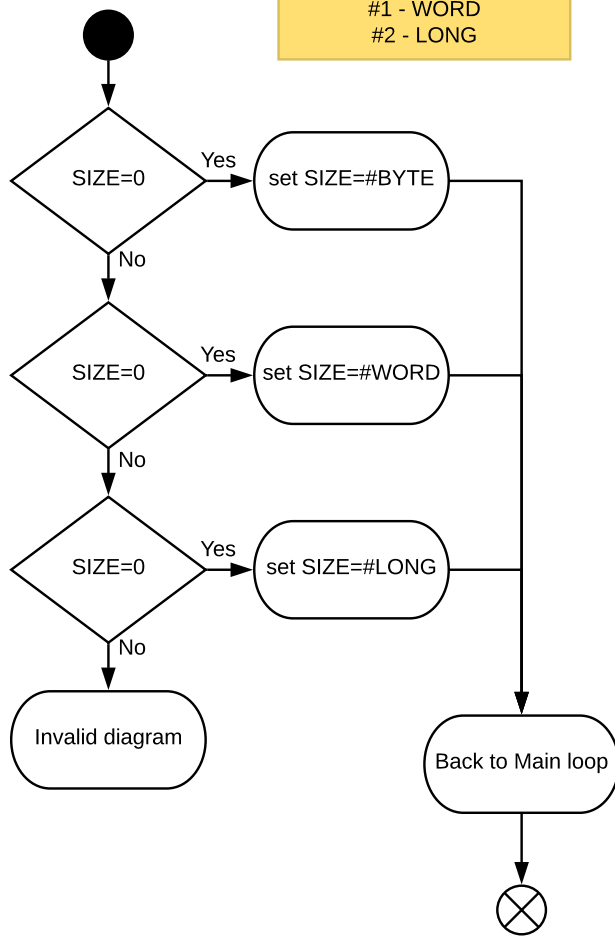
BYTE_OUT diagram



WORD_OUT diagram

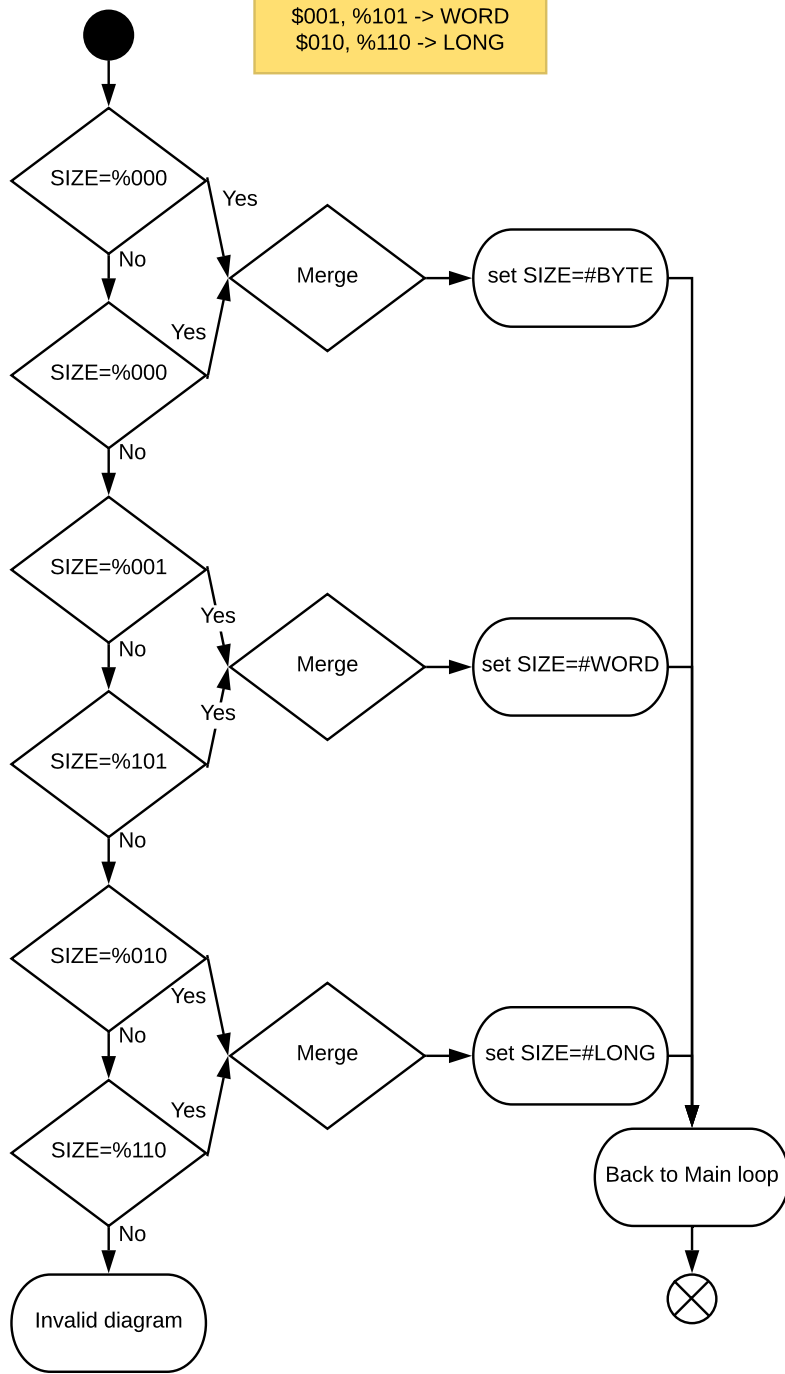


Size Converter type 1



Size Converter type 1
#0 - BYTE
#1 - WORD
#2 - LONG

Size Converter type 2

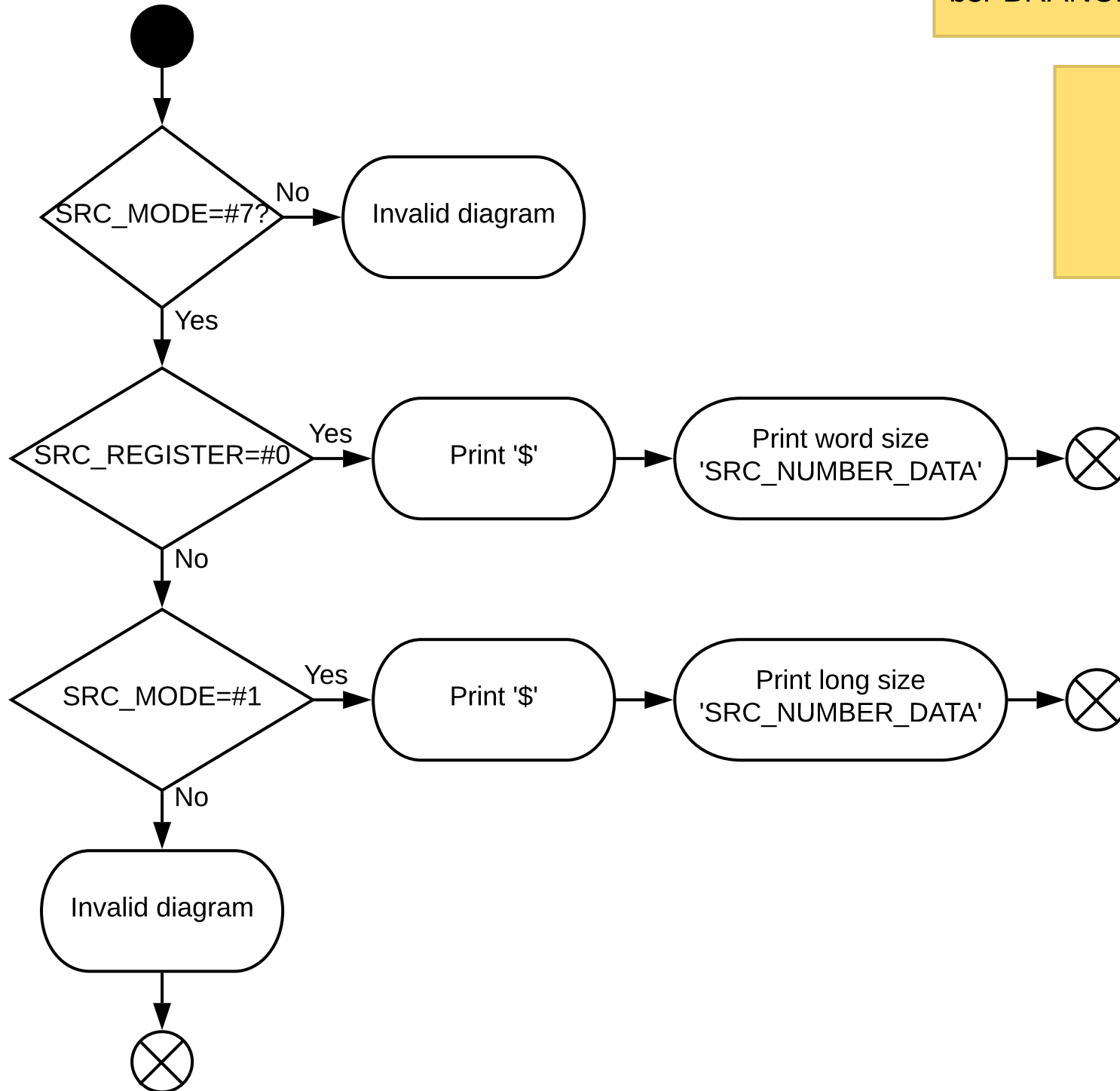


Size converter type 2
\$000, %100 -> BYTE
\$001, %101 -> WORD
\$010, %110 -> LONG

Default size instruction
#\$01 - BYTE
#\$11 - WORD
#\$10 - LONG

Variable to invoke
SIZE
CONST VARIABLE
BYTE
WORD
LONG

Branch Condition out diagram



usage:
bsr BRANCH_CONDITION_DIS_OUT

Variables to invoke:
SRC_MODE
SRC_REGISTER
SRC_NUMBER_DATA