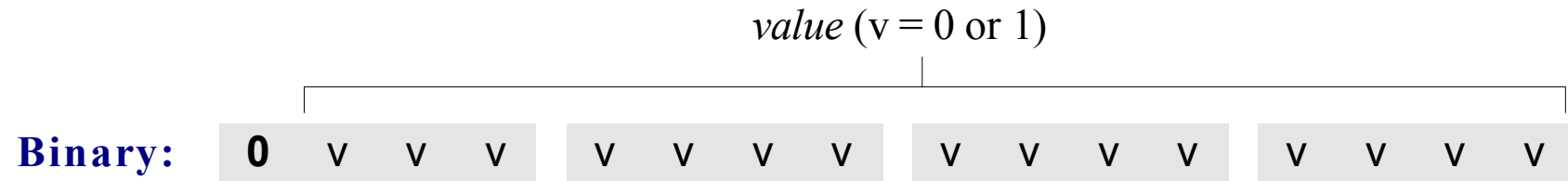


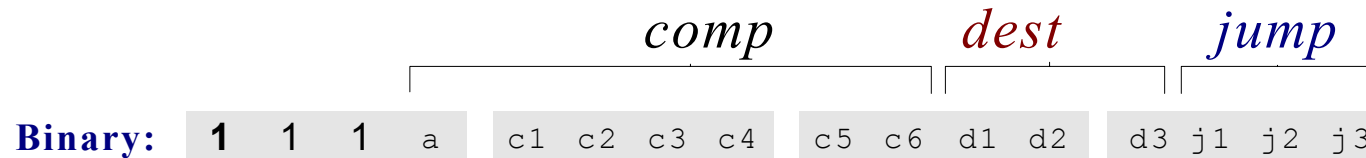
A-instruction

Symbolic: @*value* // Where *value* is either a non-negative decimal number
 // or a symbol referring to such number.



C-instruction

Symbolic: *dest=comp;jump* // Either the *dest* or *jump* fields may be empty.



(when a=0) <i>comp</i>	c1	c2	c3	c4	c5	c6	(when a=1) <i>comp</i>	d1	d2	d3	Mnemonic	Destination (where to store the computed value)
0	1	0	1	0	1	0		0	0	0	null	The value is not stored anywhere
1	1	1	1	1	1	1		0	0	1	M	Memory[A] (memory register addressed by A)
-1	1	1	1	0	1	0		0	1	0	D	D register
D	0	0	1	1	0	0		0	1	1	MD	Memory[A] and D register
A	1	1	0	0	0	0	M	1	0	0	A	A register
!D	0	0	1	1	0	1		1	0	1	AM	A register and Memory[A]
!A	1	1	0	0	0	1	!M	1	1	0	AD	A register and D register
-D	0	0	1	1	1	1		1	1	1	AMD	A register, Memory[A], and D register
-A	1	1	0	0	1	1	-M					
D+1	0	1	1	1	1	1						
A+1	1	1	0	1	1	1	M+1					
D-1	0	0	1	1	1	0						
A-1	1	1	0	0	1	0	M-1					
D+A	0	0	0	0	1	0	D+M					
D-A	0	1	0	0	1	1	D-M					
A-D	0	0	0	1	1	1	M-D					
D&A	0	0	0	0	0	0	D&M					
D A	0	1	0	1	0	1	D M					

j1 (out < 0)	j2 (out = 0)	j3 (out > 0)	Mnemonic	Effect
0	0	0	null	No jump
0	0	1	JGT	If out > 0 jump
0	1	0	JEQ	If out = 0 jump
0	1	1	JGE	If out ≥ 0 jump
1	0	0	JLT	If out < 0 jump
1	0	1	JNE	If out ≠ 0 jump
1	1	0	JLE	If out ≤ 0 jump
1	1	1	JMP	Jump