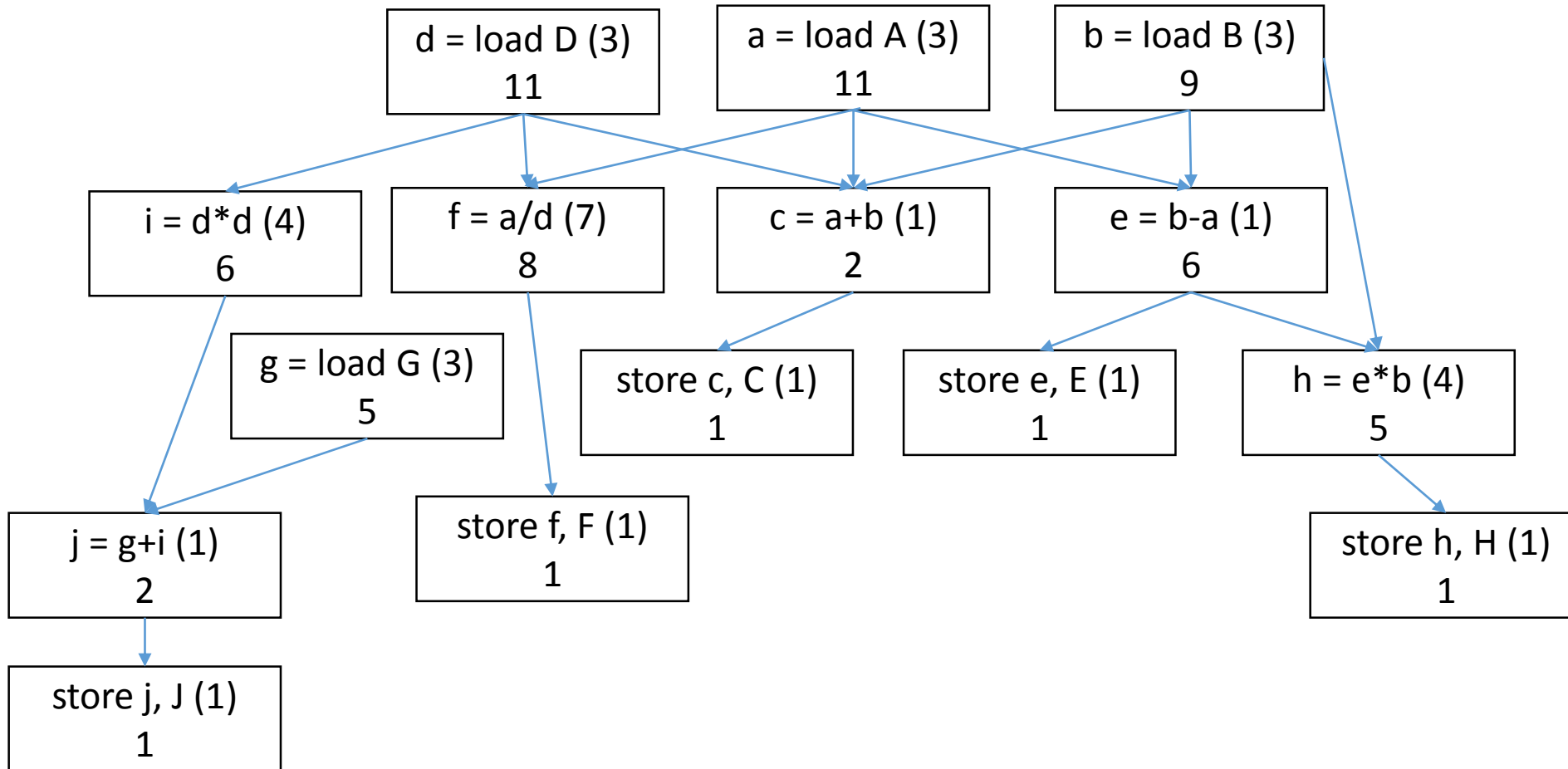


Forward Scheduling

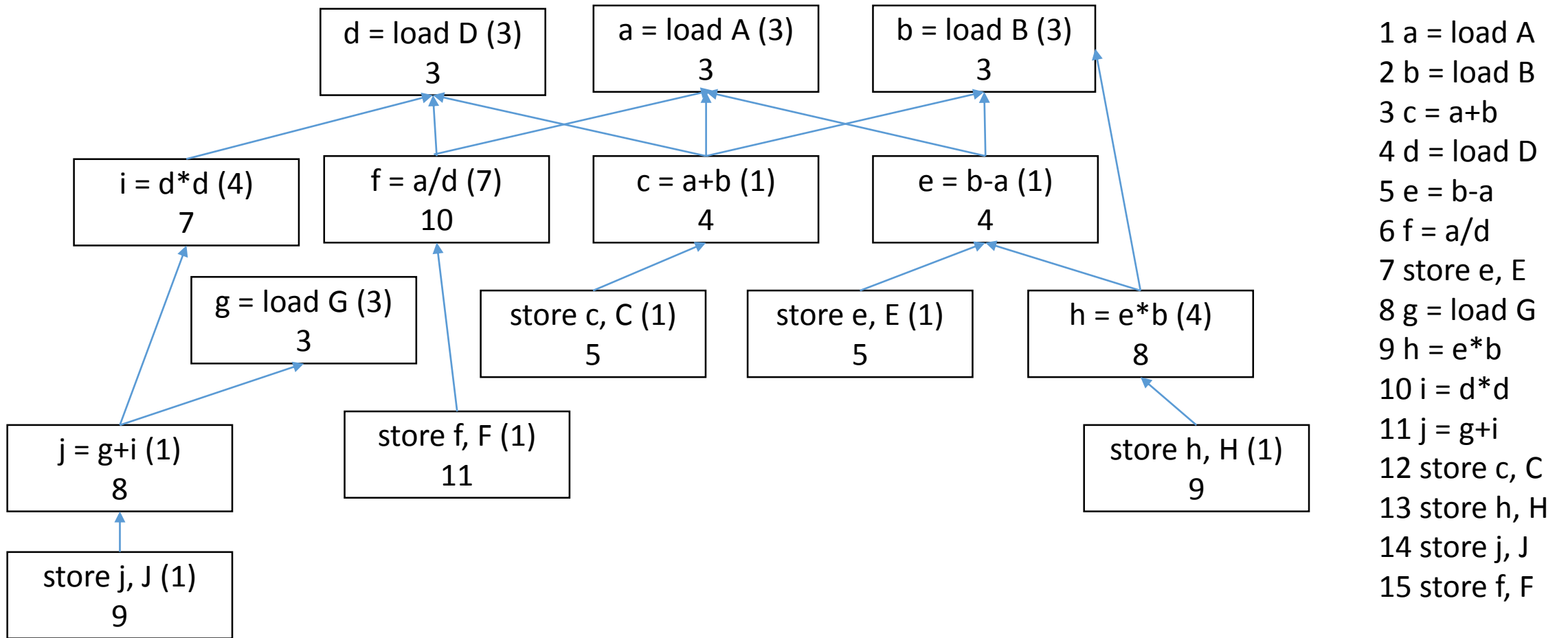


- 1 $a = \text{load } A$
- 2 $b = \text{load } B$
- 3 $c = a + b$
- 4 $d = \text{load } D$
- 5 $e = b - a$
- 6 $f = a / d$
- 7 $\text{store } e, E$
- 8 $g = \text{load } G$
- 9 $h = e * b$
- 10 $i = d * d$
- 11 $j = g + i$
- 12 $\text{store } c, C$
- 13 $\text{store } h, H$
- 14 $\text{store } j, J$
- 15 $\text{store } f, F$

Ready	In flight	Finishing	Newly Ready
a,b,d,g			
b,d,g	a		
b,g	a,d	a	
g	d,b	d	i,f
i,f	b,g	b	c,e
c,e	g,i,f	g,c,e	sc,se,h
sc,se,h	i,f		
sc	i,f,h	i	J
J	f,h	j	sj
sj	f,h	h	sh
sh	f	f	Sf
sf			

ALU	ALU	MEM
		a 1
		d 4
		b 2
		g 8
i 10	f 6	
c 3	e 5	
h 9		se 7
		sc 12
j 11		
		sj 14
		sh 13
		sf 15

Backward Scheduling



Ready	In flight	Newly Ready
	a	
	b, a	
a	d, b, a	
b, a	d, b	
a,b,d	d	
e	f, e	a, b, d
-	f, h, i	e
-	f, h, g, i	
c, se	f, h, g, i, c, se	
h, se, sc, i, g	f, sc, h, g, i	c
j, sh, se, sc	f, j, sh	h,g,i
sj, sh, se, sc, f	f, sj	j
sf, sj, sh, se, sc	sf	f

ALU	ALU	MEM
		a 1
		b 2
		d 4
f 6	e 5	
h 9	i 10	
		g 8
c 3		se 7
		sc 12
j 11		sh 13
		sj 14
		sf 15