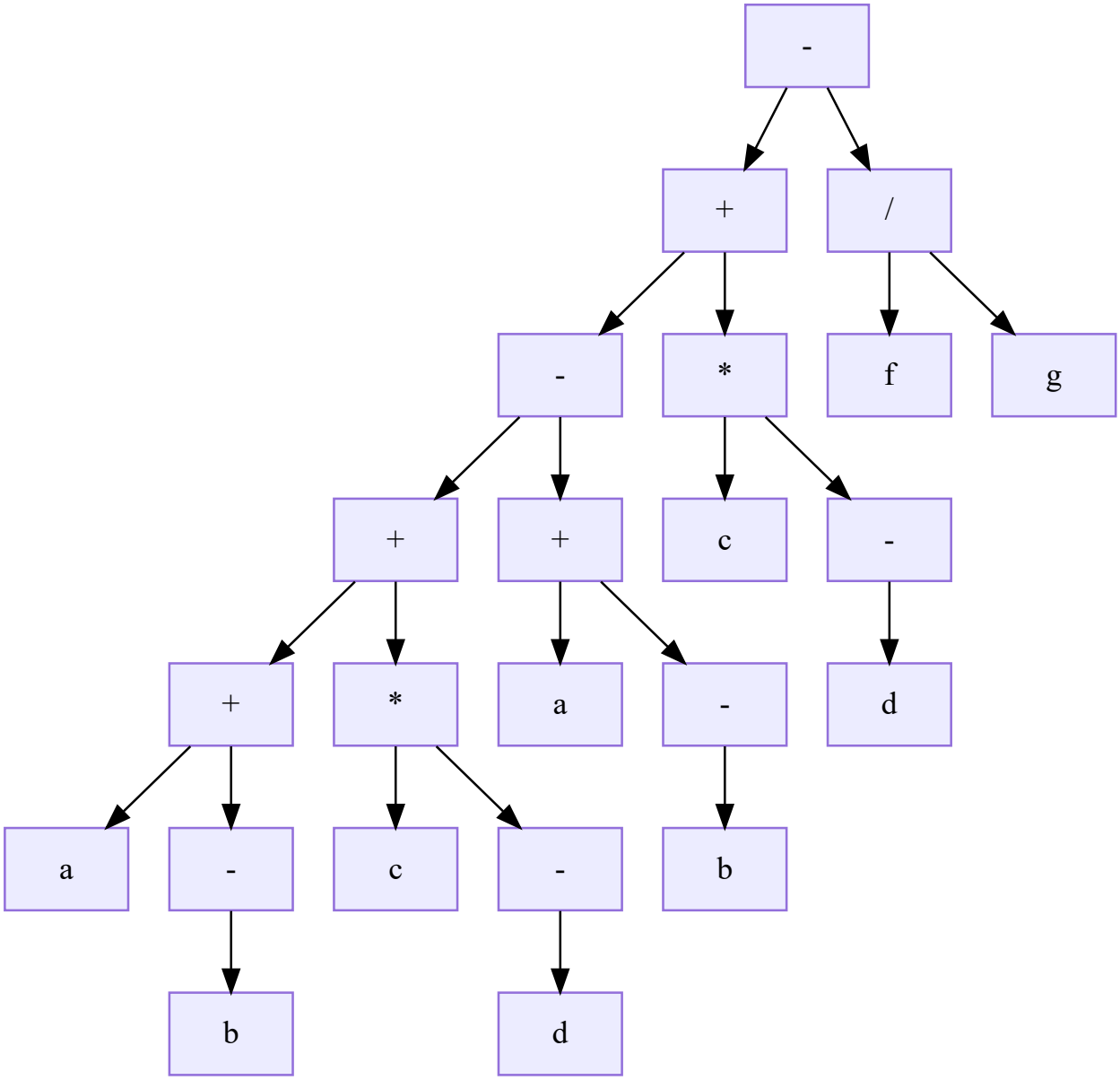
Ashutosh Chauhan

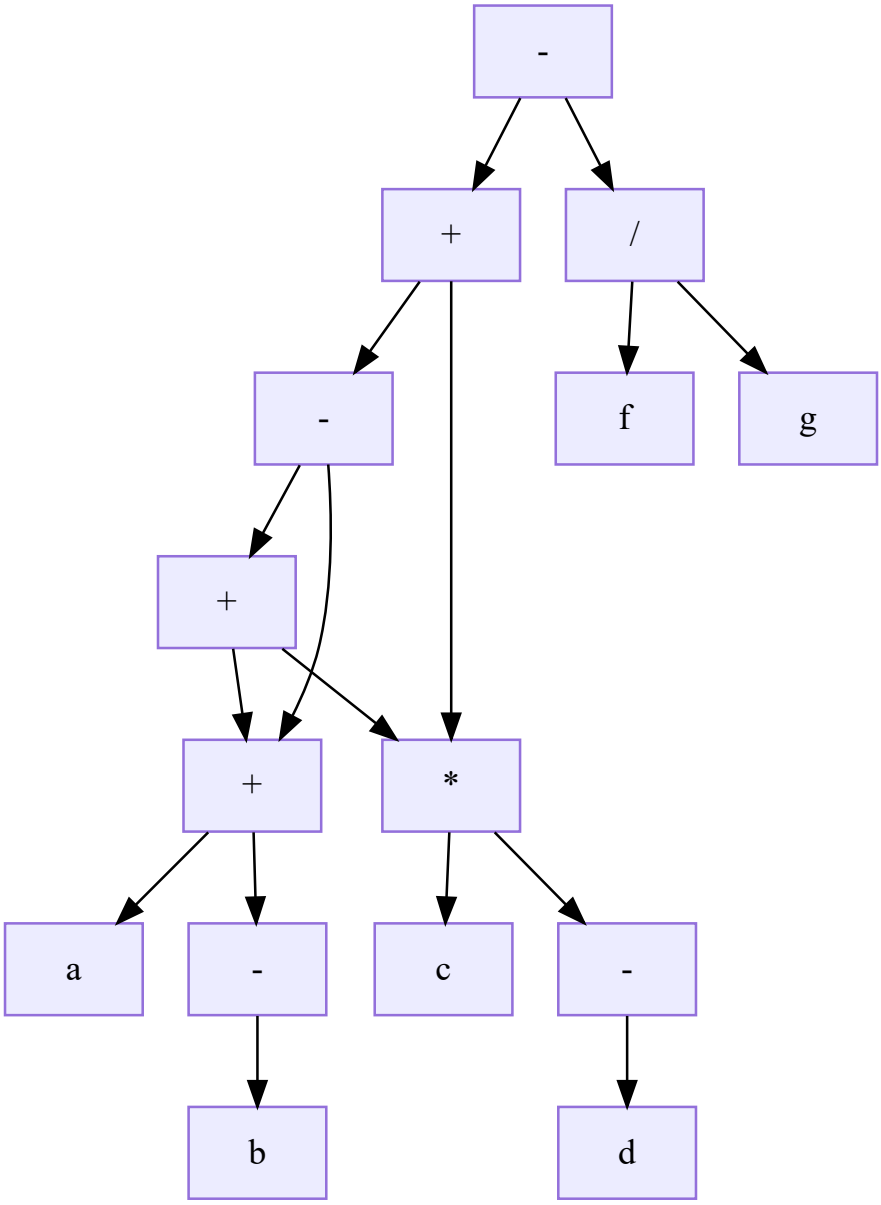
S20180010017

`x = a + -b+(c * -d) - (a + -b) + c * -d - f/g`

- AST



- DAG



- Quadruple

S. no	Operator	Operand 1	Operand 2	Result
1	unary -	b		t1
2	+	a	t1	t2
3	unary -	d		t3
4	*	c	t3	t4
5	+	t2	t4	t5
6	unary -	b		t6
7	+	a	t6	t7
8	-	t5	t7	t8
9	unary -	d		t9
10	*	c	t9	t10
11	+	t8	t10	t11
12	/	f	g	t12
13	-	t11	t12	t13

- Triples

S. no	Operator	Operand 1	Operand 2
1	unary -	b	
2	+	a	(1)
3	unary -	d	
4	*	c	(3)
5	+	(2)	(4)
6	-	(5)	(2)
7	+	(6)	(4)
8	/	f	g
9	-	(8)	(9)

- Indirect Triples

S. no	Operator	Operand 1	Operand 2
1	unary -	b	
2	+	a	(11)
3	unary -	d	
4	*	c	(13)
5	+	(12)	(14)
6	-	(15)	(12)
7	+	(16)	(14)
8	/	f	g
9	-	(17)	(18)

#	Statement
1	(11)
2	(12)
3	(13)
4	(14)
5	(15)
6	(16)
7	(17)
8	(18)

- Prefix

  `-+-++a-b*c-d+a-b*c-d/fg`
- Postfix

  `ab-+cd-*+ab-+-cd-*+fg/-`