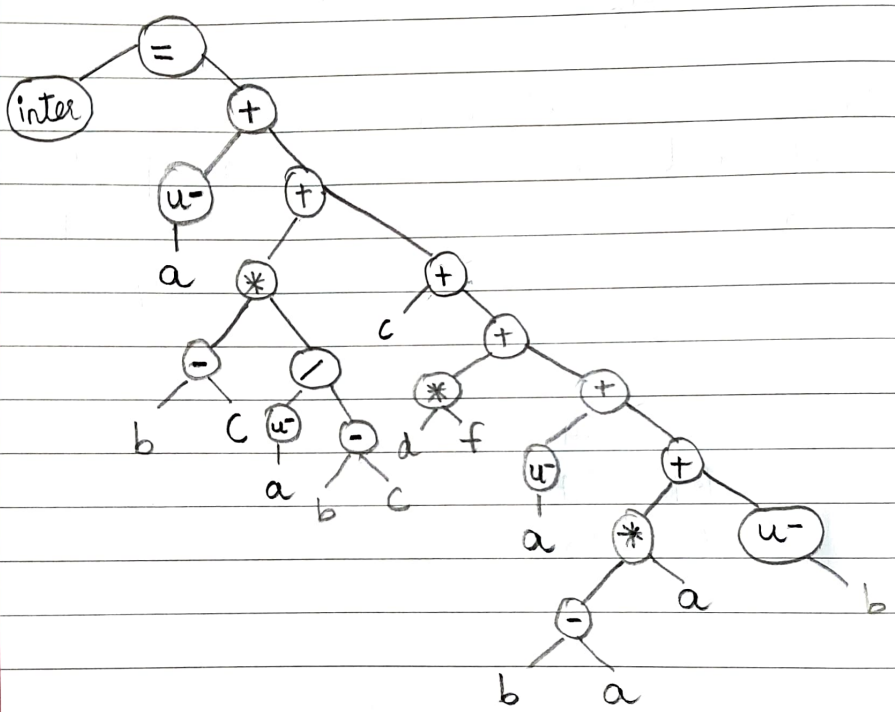
2018ICSE0621
Sai Ram. K
7-CSE-10

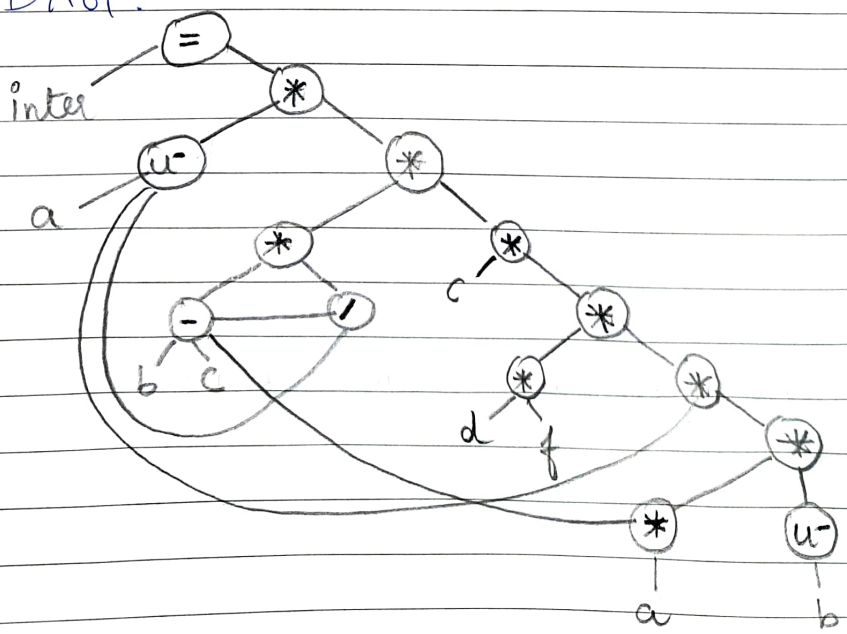
Part-B

Q.3] Given, inter = -a + (b-c) * -a / (b-c) + c + d * f + -a + (b-c) * a + -b

(i) Syntax tree: U- => UnaryMinus.



(ii) DAG:



20181CSE0624
Sai Ram

classmate
Date
Page

iii) Quadruples

	Operation	Arg1	Arg2	result
(0)	−	b	c	t_1
(1)	*	t_1	a	t_2
(2)	Uminus	b		t_3
(3)	+	t_2	t_3	t_4
(4)	Uminus	a		t_5
(5)	+	t_4	t_5	t_6
(6)	*	d		t_7
(7)	+	t_6	t_7	t_8
(8)	+	t_8	c	t_9
(9)	/	t_5	t_1	t_{10}
(10)	*	t_1	t_{10}	t_{11}
(11)	+	t_2	t_{11}	t_{12}
(12)	=	t_{12}		inta

iv) Tuples

	Operation	Arg1	Arg2
(0)	−	b	c
(1)	*	(0)	a
(2)	u^-	b	
(3)	+	(1)	(2)
(4)	u^-	a	
(5)	+	(3)	(4)
(6)	*	d	f
(7)	+	(5)	(6)
(8)	+	(7)	c
(9)	/	(4)	(0)
(10)	*	(0)	(9)
(11)	+	(1)	(10)
(12)	=	(11)	inta