

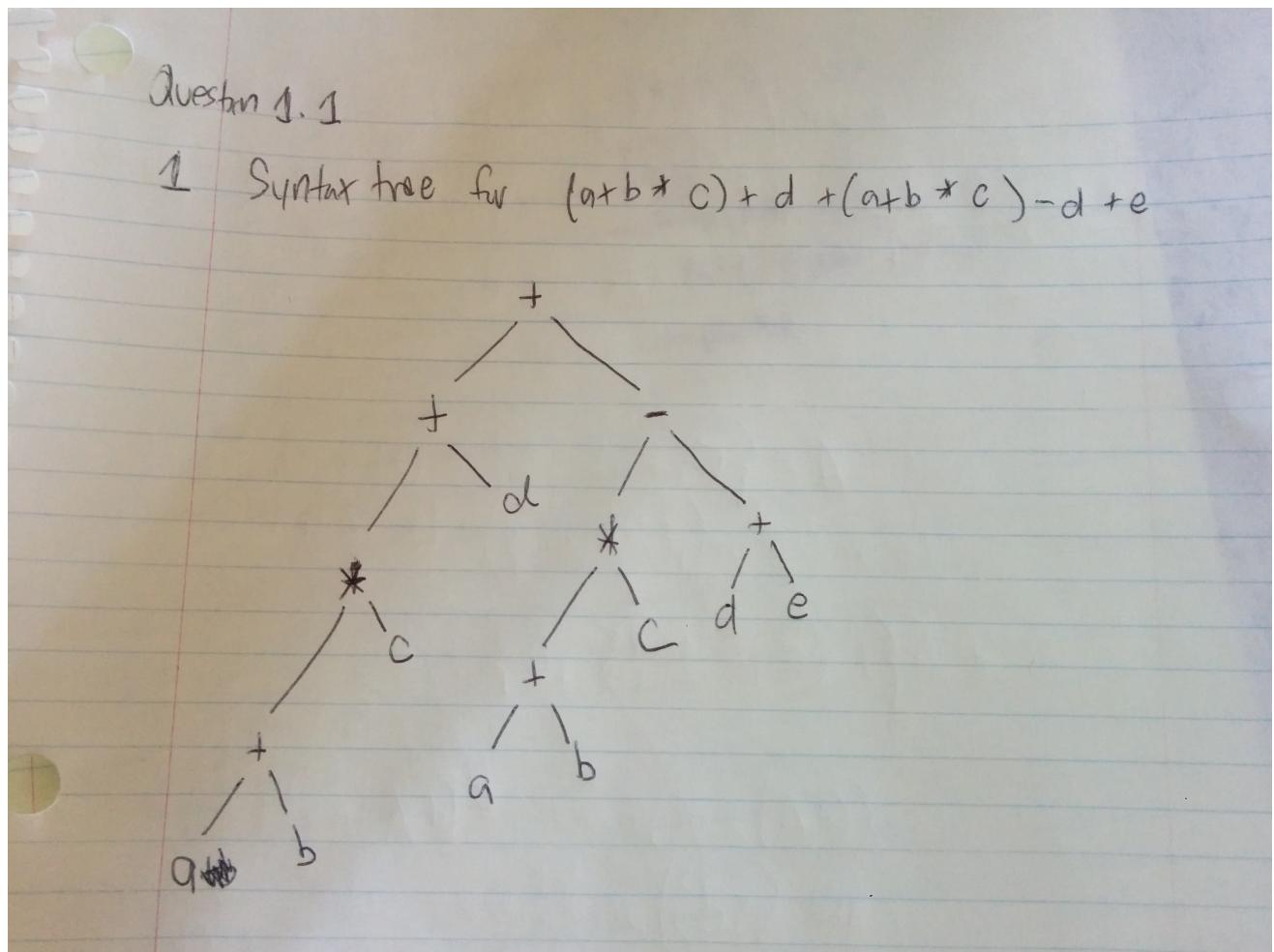
Homework 7

Abhi Agarwal

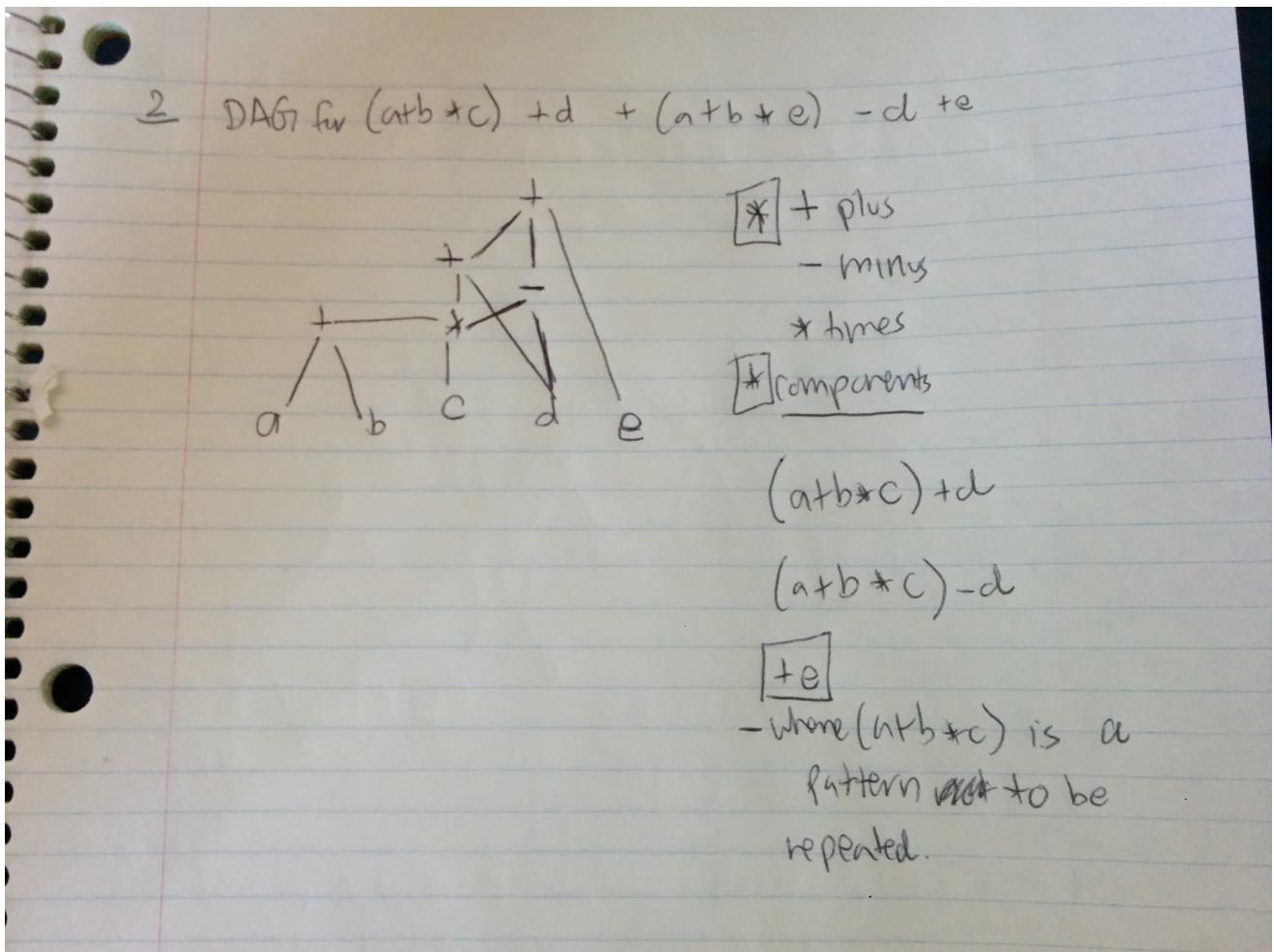
1 Representation

1.1 Question 1.1

1.1.1 1 - Syntax Tree



1.1.2 2 - DAG (Directed Acyclic Graph) representation



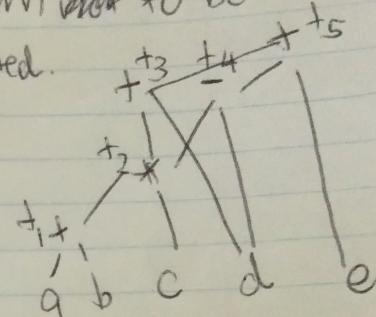
1.1.3 3 - Three-Address Code representation

3 Three-Address Code representation

- Where $(ab * c)$ is a pattern ~~not~~ to be repeated.

$t_1 = a + b$
 $t_2 = t_1 * c$
 $t_3 = t_2 + d$
 $t_4 = t_2 - d$
 $t_5 = t_3 + t_4 + e$

Where t_5 is final answer



1.2 Question 1.2