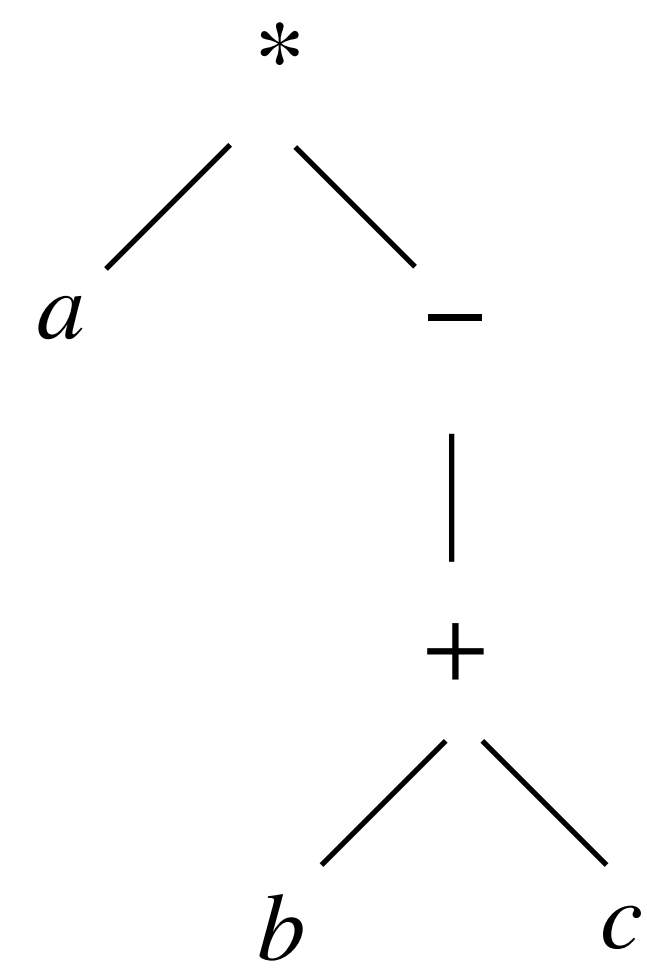


Compilers Assignment 9

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(1)



语法树

$abc + - *$

后缀式

$$t_1 = b + c$$

$$t_2 = - t_1$$

$$t_3 = a * t_2$$

三地址代码

(2)

$T \Rightarrow aDa$	$\{print'1'\}$
$\Rightarrow a(Aa$	$\{print'2'\}$
$\Rightarrow a(Dd)a$	$\{print'4'\}$
$\Rightarrow a((Ad)a$	$\{print'2'\}$
$\Rightarrow a((Dd)d)a$	$\{print'4'\}$
$\Rightarrow a(((Ad)d)a$	$\{print'2'\}$
$\Rightarrow a(((Dd)d)d)a$	$\{print'4'\}$
$\Rightarrow a(((dd)d)d)a$	$\{print'3'\}$

So the output string of top-down parsing is 12424243.