

Diagram illustrating the conversion of Infix to Postfix:

Infix: $A + B$

HW (Helper Variable): $+ AB$

Postfix: $AB +$

Arrows indicate the flow from Infix to HW and from HW to Postfix.

Stack

↓

~~+~~ ~~X~~ ~~-~~ ~~/~~

1 3 4

$$A + B \times C - D / E$$

Postfix = string

ABCX + DE / -

Stack

~~x~~ ~~+~~ ~~-~~
↑ ↑
operators

W

$A \times (B + C / D - E)$

Postfix = String
Ans

$$AB \times CD / + E -$$

① $() \{ \} []$
② \wedge
③ $/ *$
④ $+ -$

$$A \times (B + C)$$

Postfix

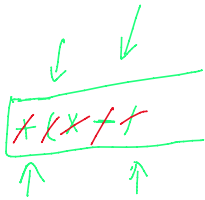
$$\begin{array}{|c|c|c|c|} \hline A & B & C & +X \\ \hline A & X & * & \\ \hline \end{array}$$
 $AB(x +$

Stack

xx

$$\begin{array}{cccccccccccc} A & + & (& B & \times & C & - & D &) & / & E \\ \uparrow & & & \uparrow & \uparrow & \uparrow & & \uparrow & \uparrow & & \uparrow & \uparrow & \uparrow \end{array}$$

$A + (B \times C - D) / E$
 $\uparrow \uparrow \uparrow \uparrow \uparrow \uparrow \uparrow \uparrow \uparrow$



$ABCXD-E/+$
 $\underline{\quad} \quad \underline{\quad}$

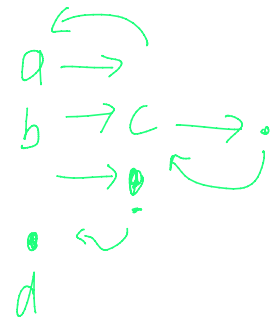
$/ \rightarrow \text{home}$

$\cdot \rightarrow \text{current}$

$\dots \rightarrow \text{Back}$

$/\text{home}/q/ \rightarrow$

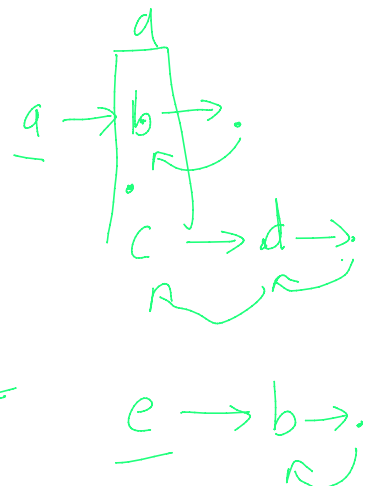
$/a/././ \Rightarrow \underline{a}$
 $\uparrow \uparrow \uparrow \uparrow$



$/a/\dots/b/./c/\dots/d/ \Rightarrow \underline{d}$
 \uparrow

\uparrow
 $\underline{\text{"home"/root}}$

$\text{"}/\underline{a}/./b/\dots/./A/\dots/./e/b/./\text{"} \Rightarrow \underline{a/e}$
 $\uparrow \uparrow \uparrow \uparrow \uparrow \uparrow \uparrow \uparrow \uparrow \uparrow$



- ✓ $\cdot \rightarrow \text{nothing}$
- ✓ $\dots \rightarrow \underline{s.\text{pop}()}$
- ✓ $\text{token} \rightarrow \underline{s.\text{push}()}$

$/././ = /$

howl

✓ token \rightarrow s.push()
 ^s
 wh ch!=/
 ~~token~~ = kh

100/100/

1