

## 資料結構 HW4

系級:運管 15

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執行結果截圖:

Infix:

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Operators: {+, -, \*, /, ^, , , |}

Input Infix:

Infix to Prefix:

Infix to Postfix:

operand stack:a  
operator stack:#  
operand stack:a  
operator stack:# /  
operand stack:a b  
operator stack:# /  
operand stack:/ab  
operator stack:# -  
operand stack:/ab  
operator stack:# - (  
operand stack:/ab c  
operator stack:# - (

Prefix:

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Operators: {+, -, \*, /, ^, , , |}

Input Prefix:

Prefix to Infix:

Prefix to Postfix:

operand stack:c  
priority stack:0  
operand stack:c a  
priority stack:0 0  
operand stack:a\*c  
priority stack:7  
operand stack:a\*c e  
priority stack:7 0  
operand stack:a\*c e d  
priority stack:7 0 0  
operand stack:a\*c e d c  
priority stack:7 0 0 0

## Postfix:

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Infix

Prefix

Postfix

Operators:{+, -, \*, /, ^, , |}

Input Postfix:

ab/cd+e\*-ac\*+

Postfix to Infix

a/b-(c+d)\*e+a\*c

Postfix to Prefix

+/ab\*+cde\*ac

operand stack:a

priority stack:0

operand stack:a b

priority stack:0 0

operand stack:a/b

priority stack:7

operand stack:a/b c

priority stack:7 0

operand stack:a/b c d

priority stack:7 0 0

operand stack:a/b c+d

priority stack:7 6