Infix Expression : (A+B)\*C Prefix Expression : \*+ABC

|  |  |  |
| --- | --- | --- |
| Char | Prefix | Stack |
| C | C |  |
| \* |  | \* |
| ) |  | \*) |
| B | CB |  |
| + |  | \*)+ |
| A | CBA |  |
| ( | CBA+ |  |
|  | CBA+\* |  |

Reverse 🡪 \*+ABC Stack + (1)

+ (1)

) (0)

\* (2)

ch=’+’

ch = ‘)’

0 > 1 F

top = -1

Infix Expression : (A+B)\*(C-D)/E Prefix Expression : /\*+AB-CDE

|  |  |  |
| --- | --- | --- |
| Char | Prefix | Stack |
| E | E |  |
| / |  | / |
| ) |  | /) |
| D | ED |  |
| - |  | /)- |
| C | EDC |  |
| ( | EDC- | / |
| \* |  | /\* |
| ) |  | /\*) |
| B | EDC-B |  |
| + |  | /\*)+ |
| A | EDC-BA |  |
| ( | EDC-BA+ | /\* |
|  | EDC-BA+\*/ |  |

Reverse & Display /\*+AB-CDE Stack -(1)

+ (1)

- (1) ) (0)

) (0) \* (2)

/ (2)

2>2 F

0>1 F

top = -1