1. 10 + 5/3 + 7

|  |  |  |
| --- | --- | --- |
| Token | Postfix | Stack |
| 10 | 10 | <empty> |
| + | 10 | + |
| 5 | 10 5 | + |
| / | 10 5 | + / |
| 3 | 10 5 3 | + / |
| + | 10 5 3 / + | + |
| 7 | 10 5 3 / + 7 | <empty> |

**POSTFIX = 10 5 3 / + 7**

1. (10+5)/3+(4+5)\*7

|  |  |  |
| --- | --- | --- |
| Token | Postfix | Stack |
| ( | <empty> | ( |
| 10 | 10 | ( |
| + | 10 | (+ |
| 5 | 10 5 | (+ |
| ) | 10 5 + | <empty> |
| / | 10 5 + | / |
| 3 | 10 5 + 3 | / |
| + | 10 5 + 3 / | + |
| ( | 10 5 + 3 / | + ( |
| 4 | 10 5 + 3 / 4 | + ( |
| + | 10 5 + 3 / 4 | + ( + |
| 5 | 10 5 + 3 / 4 5 | + ( + |
| ) | 10 5 + 3 / 4 5 + | + |
| \* | 10 5 + 3 / 4 5 + | + \* |
| 7 | 10 5 + 3 / 4 5 + 7 | + \* |
| <end> | 10 5 + 3 / 4 5 + 7 \* + | <empty> |

**POSTFIX = 10 5 + 3 / 4 5 + 7 \* +**