Infix to postfix Conversion

Q: a+b^c-d\*e^f+g/h-i\*j

|  |  |  |
| --- | --- | --- |
| Scanned symbol | Operator Stack | Postfix |
| a |  | a |
| + | + | a |
| b | + | ab |
| ^ | +^ | ab |
| c | +^ | abc |
| - | - | abc^+ |
| d | - | abc^+d |
| \* | -\* | abc^+d |
| e | -\* | abc^+de |
| ^ | -\*^ | abc^+de |
| f | -\*^ | abc^+def |
| + | + | abc^+def^\*- |
| g | + | abc^+def^\*-g |
| / | +/ | abc^+def^\*-g |
| h | +/ | abc^+def^\*-gh |
| - | - | abc^+def^\*-gh/+ |
| I | - | abc^+def^\*-gh/+i |
| \* | -\* | abc^+def\*-gh/+i |
| J | -\* | abc^+def\*-gh/+ij |
|  |  | abc^+def\*-gh/+ij\*- |

Q1. a\*b\*c-d/e+f

Q2. a+b\*c^d\*e^f/g-h

Q3. a-b+c\*d/e+f\*g

Q4. a\*b^c/d-e+f

Q5. A^b/c\*e+f-g\*h