Data Structure & Algorithm

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Q2 convert expression into Prefix notation.

$$A + B * C / D - F + A \wedge E$$

Symb	Prefix	oppstack
A	A	

1st Reverse the notation.

$$E \wedge A + F - D / C * B + A$$

Symb	prefix	oppstack
E	E	
∧	E	∧
A	EA	∧
+	EA∧	+
F	EA∧F	+
-	EA∧F	+ -
D	EA∧FD	+ -
/	EA∧FD	+ - /
C	EA∧FDC	+ - /
*	EA∧FDC	+ - / *

E A∧F D C B   + – / *
B
                    E A∧F D C B * /   + – +
7
A   E A∧F D C B * / A   + – +

            E A∧F D C B * / A + – +
    again   reverse it
        + – + A / * B C D F ∧ A E
        _____

Q2:‾ How to add an element in stack?
    public   void push (int i) {
        if (top = = arr.length -1)
        {
                System.out.println("overflow");
            ‾ system. exist (1);
        ✓

    else {
            top ++;
        arr [top] = v;
        }