Expression Evaluation (Stade & quembre -> Infr Evaluat + Conversion -> Postfin Evaluat + Convension (HW)

-> Prefin Evaluat + Convension (HW) Level (2) Basic Calculator -1,11,111

-> Enpression Tree - Construct & Evaluation

Evaluation 12/2003) operand! operative operara2 operand operation

Precoderce

(6) Brackets

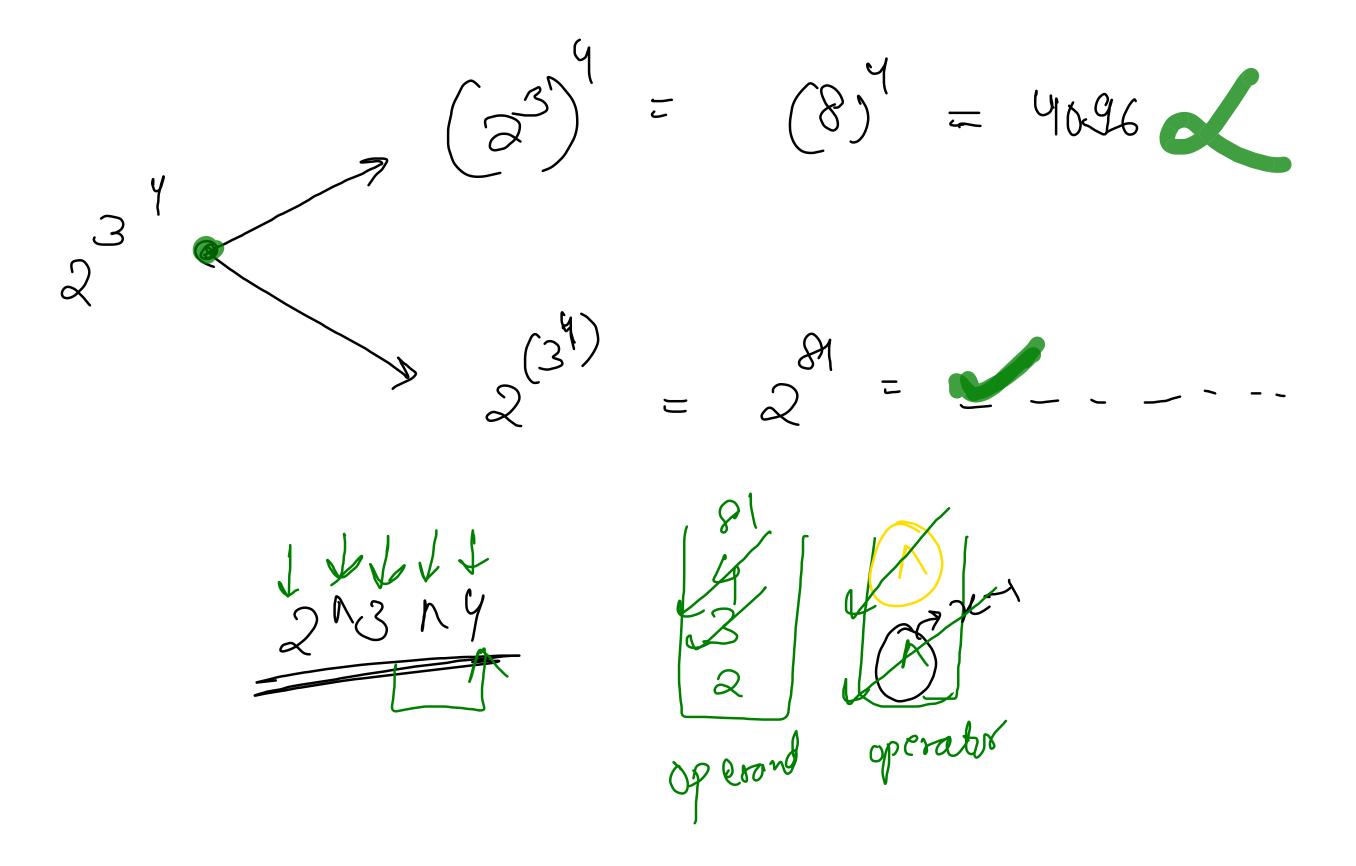
Divisions (/, x)

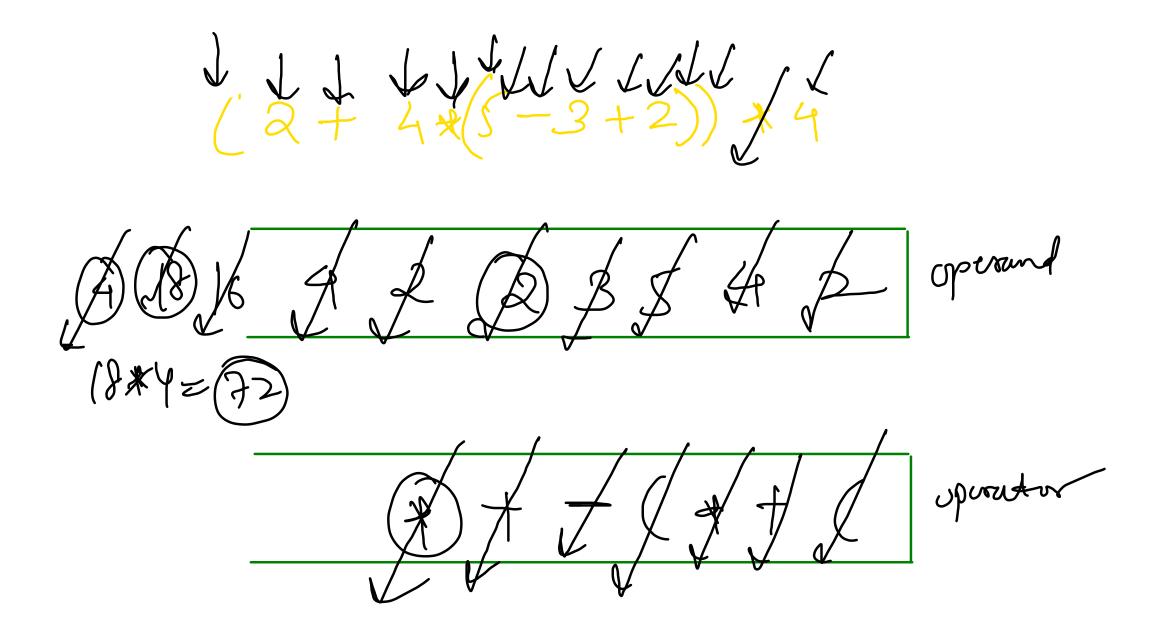
2) Additing
Subload

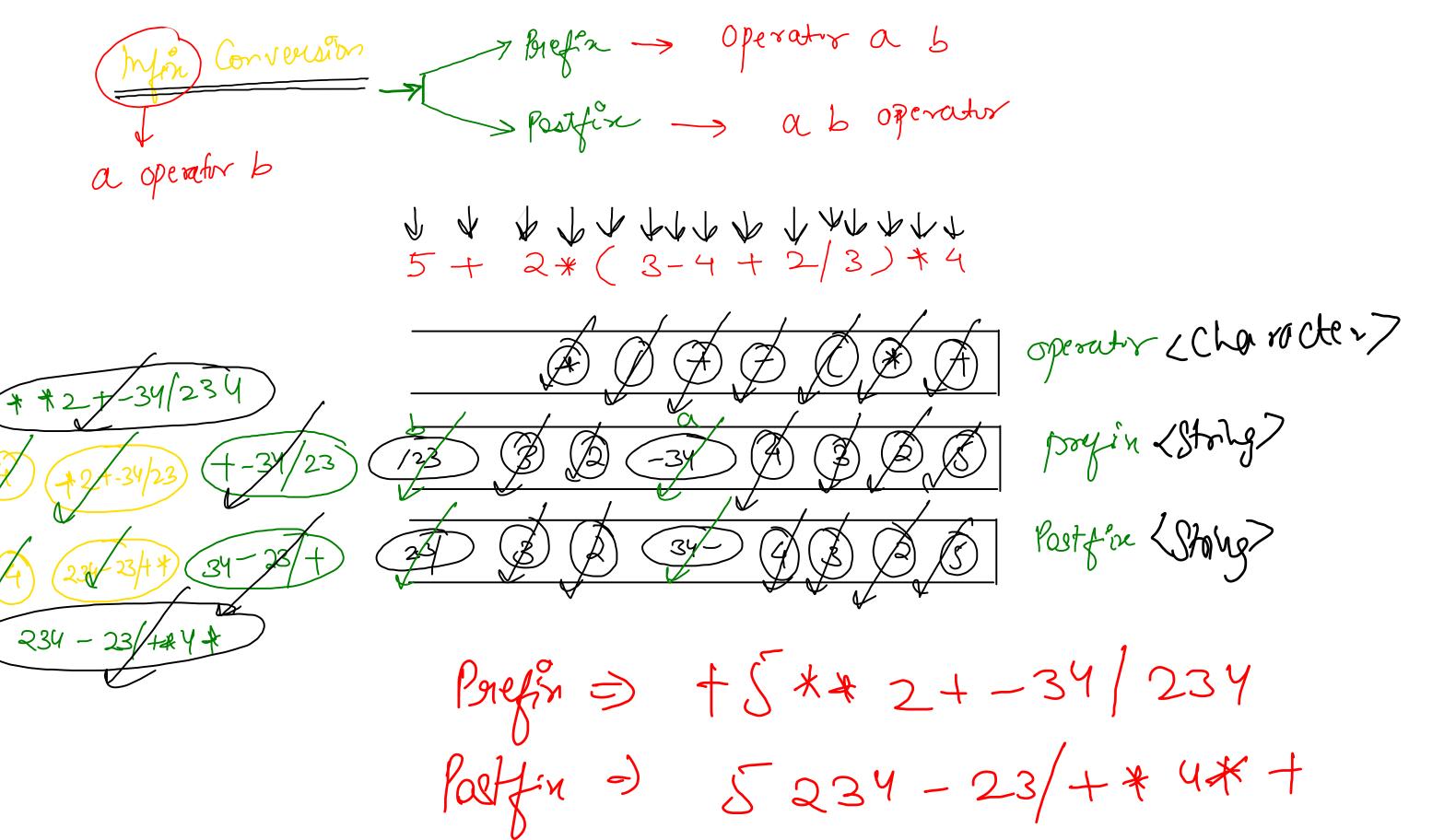
(+,-,(*)

if (ch > '0' & & ch & '9') operand: purh (ch) else if (ch = = 'C') operator. puh(ch) Pop until 'C' on top, terform, respub uperand else if (ch == ')) while (stk-size >022 stk. peek) > pred(ch), boot & bmy bring horize(8)

```
public static int precedence(char ch){
                                                      else if(ch == '+' || ch == '-' || ch == '*' || ch == '/') {
                                                                                                               1) Precedence
2) Associativity
    if(ch == '/' || ch == '*') return 2;
                                                        // operator -> + or - or * or /
    if(ch == '+' || ch == '-') return 1;
                                                        while(operator.size() > 0 && operator.peek() != '('
    return 0;
                                                            && precedence(operator.peek()) >= precedence(ch)){
                                                            int b = operand.pop();
public static int performOp(int a, char op, int b){
                                                            int a = operand.pop();
    if(op == '+'){
                                                            char op = operator.pop();
        return a + b;
                                                            operand.push(performOp(a, op, b));
     else if(op == '-'){
        return a - b;
                                                        operator.push(ch);
     else if(op == '*'){
        return a * b;
     else {
                                                         return a / b;
for(int i=0; i<exp.length(); i++){</pre>
    char ch = exp.charAt(i);
    if(ch >= '0' && ch <= '9'){
       // operand -> push in operand wali stack
       operand.push(ch - '0');
    } else if(ch == '('){
       operator.push(ch);
} else if(ch == ')'){
    while(operator.peek() != '('){
                                                                                              operation
        int b = operand.pop();
        int a = operand.pop();
        char op = operator.pop();
        operand.push(performOp(a, op, b));
    operator.pop(); // pop opening braces as well
```







Postfin Evaluation & Conversion 5234-23/+* TITT TOTAL TOTAL + ** 2+ -34/2345 Evaluato Postire Evaluar Basic Calculator - J. 11, 111

7 digit 3 35 + 478 2 7 M 1 1991

cur = 2410 + 3 = 23410 + 5 = 235 cur = 4410 + 7 = 47410 + 8 = 478

