CRIPT ARITHMETIC PROBLEM :

**public class SimpleSolver {**

**static int eval(String q) {**

**int val = 0;**

**java.util.StringTokenizer st = new java.util.StringTokenizer(q, "\*/+-", true);**

**while (st.hasMoreTokens()) {**

**String next = st.nextToken().trim();**

**if (next.equals("+")) {**

**val += Integer.parseInt(st.nextToken().trim());**

**} else if (next.equals("-")) {**

**val -= Integer.parseInt(st.nextToken().trim());**

**} else if (next.equals("\*")) {**

**val \*= Integer.parseInt(st.nextToken().trim());**

**} else if (next.equals("/")) {**

**val /= Integer.parseInt(st.nextToken().trim());**

**} else {**

**val = Integer.parseInt(next);**

**}**

**}**

**return val;**

**}**

**static String solve(String q) {**

**char c = 0;**

**for (int i = 0; i < q.length(); ++i) {**

**if (Character.isAlphabetic(q.charAt(i))) {**

**c = q.charAt(i);**

**break;**

**}**

**}**

**if (c == 0) {**

**String[] ops = q.split("==");**

**int o1 = eval(ops[0]), o2 = eval(ops[1]);**

**if (o1 == o2) return q;**

**else return "";**

**} else {**

**char[] dset = new char[10];**

**for (int i = 0; i < q.length(); ++i)**

**if (Character.isDigit(q.charAt(i)))**

**dset[q.charAt(i)-'0'] = 1;**

**for (int i = 0; i < 10; ++i) {**

**if (dset[i] == 0) {**

**String r = solve(q.replaceAll(String.valueOf(c),**

**String.valueOf(i)));**

**if (!r.isEmpty()) return r;**

**}**

**}**

**}**

**return "";**

**}**

**public static void main(String[] args) {**

**String query = "ABCDE \* A == EEEEEE";**

**System.out.println(solve(query));**

**}**

**}**