

1992 ACM South Central Regional Programming Contest

Problem #6: Solver

Problem Description

Write a program which will read in from a file named "C:\SOLVER.DAT" (to be supplied by the judges) sets of possibly nonlinear equations to be solved. Each equation will be either of the form

$$A=n$$

or

$$A=B\$C$$

where A, B, and C are variables, n is a floating-point number, and \$ may be +, -, *, or /. The only variable names used will be capital letters A through I. Each set of equations is followed by a blank line. Stop at end of file. Each equation starts in column 1 and contains no embedded blanks. Display all variables and their values.

Turn in a disk with either \SOLVER.C or \SOLVER.PAS on it.

Sample Input

(two sets of data in the file):

```
A=B*C
B=2.5
A=10.0
```

```
A=B*C
B=2.5
C=3.0
A=10.0
```

Sample Output:

```
A=10.0
B=2.5
C=4.0
```

```
NO SOLUTION
```