



MOD

It calculates the remaining portion of the division of x for y

```
9→X
2→Y
prgmMOD
1
```

9→X
2→Y
prgmMOD
(The remaining portion is stored in R, displays 1).

$$\begin{array}{r} 9 \overline{) 2} \\ \underline{14} \\ 14 \\ \underline{14} \\ 0 \end{array}$$

NOTE: This program uses the temporarily variable θ

```
PROGRAM: MOD
: X/Y→θ
: Yint(θ→θ
: X-θ→R
```

And if use this program as a subprogram take care to keep the value of θ save if necessary (for example you can save the values in one list). You can also save the X and Y values if necessary.

You can make something like this to keep the values X, Y and θ save before running prgmMOD and you can restore the values of X, Y and θ .

```
X→L(1)
Y→L(2)
θ→L(3)
```

This only needed if use those variables in your other program that includes the subprogram prgmMOD and you don't want to loose the X and Y value. Or simply don't use the variables used in prgmMOD like X,Y,R and θ .

```
PROGRAM: PPP
:
: Disp "5/2"
: 5→X
: 2→Y
: prgmMOD
: Disp "MOD"
: Disp R
```

New source code (faster version) :

*Program:MOD
:X-Yint(X/Y->R*

Thank's to :

Jake Griffin (Jrock7286@aol.com)- for making the faster version of MOD.

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