

v2/crypto.pro demo

Welcome to SWI-Prolog (Multi-threaded, 64 bits, Version 7.2.2)

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For help, use `?- help(Topic).` or `?- apropos(Word).`

```
?- consult('v2/crypto.pro').
```

true.

```
?- crypto(3,2,1,1,X).
```

```
X = ex(ex(3, -, 2), *, 1) ;
```

```
X = ex(1, *, ex(3, -, 2)) ;
```

```
X = ex(ex(3, -, 2), /, 1) ;
```

```
X = ex(1, /, ex(3, -, 2)) ;
```

```
X = ex(ex(3, -, 2), /, 1) ;
```

```
X = ex(1, /, ex(3, -, 2)) ;
```

```
X = ex(ex(2, +, 1), /, 3) ;
```

```
X = ex(3, /, ex(2, +, 1)) ;
```

```
X = ex(ex(2, +, 1), /, 3) ;
```

```
X = ex(3, /, ex(2, +, 1)) ;
```

```
X = ex(3, -, ex(2, *, 1)) ;
```

```
X = ex(3, -, ex(2, /, 1)) ;
```

```
X = ex(ex(3, *, 1), -, 2) ;
```

```
X = ex(ex(3, -, 1), /, 2) ;
```

```
X = ex(2, /, ex(3, -, 1)) ;
```

```
X = ex(ex(3, -, 1), /, 2) ;
```

```
X = ex(2, /, ex(3, -, 1)) ;
```

```
X = ex(ex(3, /, 1), -, 2) ;
```

false.

```
?- crypto(4,5,9,X).
```

```
X = ex(4, +, 5) ;
```

false.

?- crypto(8,3,5,6,12,X).

X = ex(ex(8, +, 3), -, ex(5, -, 6)) ;

X = ex(ex(8, +, 3), +, ex(6, -, 5)) ;

X = ex(ex(6, +, ex(8, +, 3)), -, 5) ;

X = ex(6, -, ex(5, -, ex(8, +, 3))) ;

X = ex(ex(ex(8, +, 3), -, 5), +, 6) ;

X = ex(6, +, ex(ex(8, +, 3), -, 5)) ;

X = ex(ex(8, -, 5), +, ex(3, +, 6)) ;

X = ex(3, +, ex(ex(8, -, 5), +, 6)) ;

X = ex(ex(8, -, 5), +, ex(6, +, 3)) .

?- halt.