

```
% library(win_menu) compiled into win_menu 0.02 sec, 33 clauses
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```

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

```
1 ?- consult('crypto.pro').
```

```
% c:/Users/joshu/Documents/CSC366/Assignments/sets/comboSETS.pro compiled 0.00 sec, 38 clauses
```

```
% crypto.pro compiled 0.00 sec, 55 clauses
```

```
true.
```

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

```
Solution = ex(3, -, 2) ;
```

```
false.
```

```
3 ?- crypto(4,2,2,Solutions).
```

```
Solutions = ex(4, -, 2) ;
```

```
Solutions = ex(4, /, 2) ;
```

```
false.
```

```
4 ?- crypto(6,3,2,1,Solution).
```

```
Correct to: "crypto(6,3,2,1,Solution)"? yes
```

```
Solution = ex(ex(6, -, 3), -, 2) ;
```

```
Solution = ex(ex(6, /, 3), /, 2) ;
```

```
Solution = ex(2, /, ex(6, /, 3)) ;
```

```
Solution = ex(ex(6, /, 3), /, 2) ;
```

Solution = ex(2, /, ex(6, /, 3)) ;

Solution = ex(6, -, ex(3, +, 2)) ;

Solution = ex(ex(3, \*, 2), /, 6) ;

Solution = ex(6, /, ex(3, \*, 2)) ;

Solution = ex(ex(3, \*, 2), /, 6) ;

Solution = ex(6, /, ex(3, \*, 2)) ;

Solution = ex(ex(6, -, 2), -, 3) ;

Solution = ex(ex(6, /, 2), /, 3) ;

Solution = ex(3, /, ex(6, /, 2)) ;

Solution = ex(ex(6, /, 2), /, 3) ;

Solution = ex(3, /, ex(6, /, 2)) ;

false.

5 ?- crypto(10,5,2,15,10,Solutions).

Solutions = ex(ex(ex(10, \*, 5), /, 2), -, 15) ;

Solutions = ex(ex(15, +, ex(10, -, 5)), /, 2) ;

Solutions = ex(ex(15, -, ex(5, -, 10)), /, 2) ;

Solutions = ex(ex(10, \*, 2), +, ex(5, -, 15)) ;

Solutions = ex(ex(10, \*, 2), -, ex(15, -, 5)) ;

Solutions = ex(5, -, ex(15, -, ex(10, \*, 2))) ;

Solutions = ex(ex(ex(10, \*, 2), -, 15), +, 5) ;

Solutions = ex(5, +, ex(ex(10, \*, 2), -, 15)) ;

Solutions = ex(ex(5, +, ex(10, \*, 2)), -, 15) ;

Solutions = ex(ex(ex(10, /, 2), \*, 5), -, 15) ;

Solutions = ex(ex(5, \*, ex(10, /, 2)), -, 15) ;

Solutions = ex(ex(2, \*, ex(10, +, 15)), /, 5) ;

Solutions = ex(ex(ex(10, +, 15), -, 5), /, 2) ;

Solutions = ex(2, \*, ex(ex(10, +, 15), /, 5)) ;

Solutions = ex(ex(5, -, 15), +, ex(10, \*, 2)) ;

Solutions = ex(ex(10, -, ex(5, -, 15)), /, 2) ;  
Solutions = ex(ex(10, \*, 2), -, ex(15, -, 5)) ;  
Solutions = ex(ex(ex(15, -, 5), \*, 2), -, 10) ;  
Solutions = ex(ex(2, \*, 10), -, ex(15, -, 5)) ;  
Solutions = ex(ex(2, \*, ex(15, -, 5)), -, 10) ;  
Solutions = ex(ex(ex(15, -, 5), +, 10), /, 2) ;  
Solutions = ex(ex(10, +, ex(15, -, 5)), /, 2) ;  
Solutions = ex(10, \*, ex(ex(15, /, 5), -, 2)) ;  
Solutions = ex(10, /, ex(ex(15, /, 5), -, 2)) ;  
false.

6 ?- halt.