

```
Last login: Mon Nov 17 11:08:57 on ttys007
carbon:code-examples$ pwd
/project/evw/Teaching/14_Fall_2041/public-class-repo/code-examples
carbon:code-examples$ utop
```

Welcome to utop version 1.14 (using OCaml version 4.01.0)!

Findlib has been successfully loaded. Additional directives:

```
#require "package";;      to load a package
#list;;                  to list the available packages
#camlp4o;;               to load camlp4 (standard syntax)
#camlp4r;;               to load camlp4 (revised syntax)
#predicates "p,q,...";;  to set these predicates
Topfind.reset();;        to force that packages will be reloaded
#thread;;                to enable threads
```

Type #utop_help for help about using utop.

```
-( 18:00:00 )-< command 0 >-----{ counter: 0 }-
utop # #use "search.ml";;
val subsetsum : 'a list -> 'a list list = <fun>
-( 11:58:12 )-< command 1 >-----{ counter: 0 }-
utop # subsetsum [1;3;-2;5;-6] ;;
- : int list list =
[[[]; [-6]; [5]; [5; -6]; [-2]; [-2; -6]; [-2; 5]; [-2; 5; -6]; [3]; [3; -6];
 [3; 5]; [3; 5; -6]; [3; -2]; [3; -2; -6]; [3; -2; 5]; [3; -2; 5; -6];
 [1]; [1; -6]; [1; 5]; [1; 5; -6]; [1; -2]; [1; -2; -6]; [1; -2; 5];
 [1; -2; 5; -6]; [1; 3]; [1; 3; -6]; [1; 3; 5]; [1; 3; 5; -6]; [1; 3; -2];
 [1; 3; -2; -6]; [1; 3; -2; 5]; [1; 3; -2; 5; -6]]
-( 11:58:38 )-< command 2 >-----{ counter: 0 }-
utop # List.length (subsetsum [1;3;-2;5;-6] ) ;;
- : int = 32
-( 11:59:05 )-< command 3 >-----{ counter: 0 }-
utop # #use "search.ml";;
val subsetsum : 'a list -> 'a list list = <fun>
-( 12:00:03 )-< command 4 >-----{ counter: 0 }-
utop # subsetsum [1;3;-2;5;-6] ;;
- : int list list =
[[[1; 3; -2; 5; -6]; [1; 3; -2; 5]; [1; 3; -2; -6]; [1; 3; -2]; [1; 3; 5; -6];
 [1; 3; 5]; [1; 3; -6]; [1; 3]; [1; -2; 5; -6]; [1; -2; 5]; [1; -2; -6];
 [1; -2]; [1; 5; -6]; [1; 5]; [1; -6]; [1]; [3; -2; 5; -6]; [3; -2; 5];
 [3; -2; -6]; [3; -2]; [3; 5; -6]; [3; 5]; [3; -6]; [3]; [-2; 5; -6];
 [-2; 5]; [-2; -6]; [-2]; [5; -6]; [5]; [-6]; []]]
-( 12:01:37 )-< command 5 >-----{ counter: 0 }-
utop #
```

Arg	Arith_status	Array	ArrayLabels	Assert_failure	Backtrace	Bag	Big_int	Bigarr
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