```
Last login: Wed Apr  5 16:09:03 on ttys006
carbon:Sec_10_3:35pm$ utop
        Welcome to utop version 1.14 (using OCaml version 4.01.0)!


Type #utop_help for help about using utop.

─( 18:00:00 )─< command 0 >──────────────────────────────────{ counter: 0 }─
utop # #use "search_options.ml";;
val s : int list = [1; 3; -2; 5; -6]
val gen_subsets : 'a list -> 'a list list = <fun>
─( 16:09:17 )─< command 1 >──────────────────────────────────{ counter: 0 }─
utop # gen_subsets s ;;
- : int list list =
[[-6; 5; -2; 3; 1]; [5; -2; 3; 1]; [-6; -2; 3; 1]; [-2; 3; 1]; [-6; 5; 3; 1];
 [5; 3; 1]; [-6; 3; 1]; [3; 1]; [-6; 5; -2; 1]; [5; -2; 1]; [-6; -2; 1];
 [-2; 1]; [-6; 5; 1]; [5; 1]; [-6; 1]; [1]; [-6; 5; -2; 3]; [5; -2; 3];
 [-6; -2; 3]; [-2; 3]; [-6; 5; 3]; [5; 3]; [-6; 3]; [3]; [-6; 5; -2];
 [5; -2]; [-6; -2]; [-2]; [-6; 5]; [5]; [-6]; []]
─( 16:09:21 )─< command 2 >──────────────────────────────────{ counter: 0 }─
utop # filter (fun ss -> List.fold_left (+) 0 ss = 0 ) (gen_subsets s) ;;
Error: Unbound value filter
─( 16:09:27 )─< command 3 >──────────────────────────────────{ counter: 0 }─
utop # List.filter (fun ss -> List.fold_left (+) 0 ss = 0 ) (gen_subsets s) ;;
- : int list list = [[-6; 5; 1]; [-6; 5; -2; 3]; []]
─( 16:11:33 )─< command 4 >──────────────────────────────────{ counter: 0 }─
utop # filter (fun ss -> List.fold_left (+) 0 ss = 0 ) (gen_subsets [1;2;3]) ;;
Error: Unbound value filter
─( 16:11:38 )─< command 5 >──────────────────────────────────{ counter: 0 }─
utop # List.filter (fun ss -> List.fold_left (+) 0 ss = 0 ) (gen_subsets [1;2;3]
) ;;
- : int list list = [[]]
─( 16:15:47 )─< command 6 >──────────────────────────────────{ counter: 0 }─
utop # #use "search_options.ml";;
val s : int list = [1; 3; -2; 5; -6]
val gen_subsets : 'a list -> 'a list list = <fun>
val sum : int list -> int = <fun>
val subsetsum_v1 : int list -> int list option = <fun>
─( 16:15:51 )─< command 7 >──────────────────────────────────{ counter: 0 }─
utop # #use "search_options.ml";;
val s : int list = [1; 3; -2; 5; -6]
val gen_subsets : 'a list -> 'a list list = <fun>
val sum : int list -> int = <fun>
val subsetsum_v1 : int list -> int list option = <fun>
─( 16:23:40 )─< command 8 >──────────────────────────────────{ counter: 0 }─
utop # subsetsum_v1 s ;;
- : int list option = Some [-6; 5; 1]
─( 16:24:56 )─< command 9 >──────────────────────────────────{ counter: 0 }─
utop # subsetsum_v1 [1;3;-2] ;;
- : int list option = None
─( 16:25:01 )─< command 10 >─────────────────────────────────{ counter: 0 }─
utop #
```

Arg	Arith_status	Array	ArrayLabels	Assert_failure	Big_int	Bigarray	Buffer	Call