```
Last login: Wed Feb  1 15:21:01 on ttys029
carbon:SamplePrograms$ 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 "map.ml";;
val map : ('a -> 'b) -> 'a list -> 'b list = <fun>
─( 15:55:04 )─< command 1 >──────────────────────────────────{ counter: 0 }─
utop # map inc [1;2;3;4] ;;
Error: Unbound value inc
Did you mean incr?
─( 15:55:08 )─< command 2 >──────────────────────────────────{ counter: 0 }─
utop # #quit ;;
carbon:SamplePrograms$ cd Sec_10_3\:35pm/
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 "map.ml";;
val inc : int -> int = <fun>
val map : ('a -> 'b) -> 'a list -> 'b list = <fun>
val r : int list = [2; 3; 4; 5]
─( 15:55:34 )─< command 1 >──────────────────────────────────{ counter: 0 }─
utop # map inc [1;2;3] ;;
- : int list = [2; 3; 4]
─( 15:55:38 )─< command 2 >──────────────────────────────────{ counter: 0 }─
utop # map Char.code ['q'; '3'];;
- : int list = [113; 51]
─( 15:55:45 )─< command 3 >──────────────────────────────────{ counter: 0 }─
utop # map ( (+) 3 ) [1;2;3] ;;
- : int list = [4; 5; 6]
─( 15:55:54 )─< command 4 >──────────────────────────────────{ counter: 0 }─
utop # #use "estring.ml";;
type estring = char list
val explode : string -> char list = <fun>
val implode : char list -> string = <fun>
val get_excited : char list -> char list = <fun>
─( 15:57:15 )─< command 5 >──────────────────────────────────{ counter: 0 }─
utop # get_excited (explode "my students look tired." ) ;;
- : char list =
['m'; 'y'; ' '; 's'; 't'; 'u'; 'd'; 'e'; 'n'; 't'; 's'; ' '; 'l'; 'o'; 'o';
 'k'; ' '; 't'; 'i'; 'r'; 'e'; 'd'; '!']
─( 16:03:39 )─< command 6 >──────────────────────────────────{ counter: 0 }─
utop # implode (get_excited (explode "my students look tired." )) ;;
- : string = "my students look tired!"
─( 16:04:15 )─< command 7 >──────────────────────────────────{ counter: 0 }─
```

```
utop # #use "filter.ml";;
val filter : ('a -> bool) -> 'a list -> 'a list = <fun>
─( 16:04:27 )─< command 8 >──────────────────────────────────{ counter: 0 }─
utop # let even x = x mod 2 = 0 ;;
val even : int -> bool = <fun>
─( 16:14:03 )─< command 9 >──────────────────────────────────{ counter: 0 }─
utop # filter even [1;2;3;4;5;6] ;;
- : int list = [2; 4; 6]
─( 16:14:17 )─< command 10 >─────────────────────────────────{ counter: 0 }─
utop # #use "filter.ml";;
val filter : ('a -> bool) -> 'a list -> 'a list = <fun>
val filter' : ('a -> bool) -> 'a list -> 'a list = <fun>
─( 16:14:24 )─< command 11 >─────────────────────────────────{ counter: 0 }─
utop # filter' even [1;2;3;4;5;6] ;;
- : int list = [2; 4; 6]
─( 16:15:58 )─< command 12 >─────────────────────────────────{ counter: 0 }─
utop # filter' even [] ;;
- : int list = []
─( 16:16:03 )─< command 13 >─────────────────────────────────{ counter: 0 }─
utop # #use "filter.ml";;
val filter : ('a -> bool) -> 'a list -> 'a list = <fun>
File "filter.ml", line 9, characters 2-126:
Warning 8: this pattern-matching is not exhaustive.
Here is an example of a value that is not matched:
_::_
(However, some guarded clause may match this value.)
val filter' : ('a -> bool) -> 'a list -> 'a list = <fun>
─( 16:16:12 )─< command 14 >─────────────────────────────────{ counter: 0 }─
utop # #use "filter.ml";;
val filter : ('a -> bool) -> 'a list -> 'a list = <fun>
val filter' : ('a -> bool) -> 'a list -> 'a list = <fun>
─( 16:16:52 )─< command 15 >─────────────────────────────────{ counter: 0 }─
utop # #use "filter.ml";;
File "filter.ml", line 14, characters 35-37:
Error: Syntax error: type expected.
─( 16:18:57 )─< command 16 >─────────────────────────────────{ counter: 0 }─
utop # #use "filter.ml";;
File "filter.ml", line 14, characters 39-41:
Error: Syntax error: type expected.
─( 16:24:49 )─< command 17 >─────────────────────────────────{ counter: 0 }─
utop #
```

Arg	Arith_status	Array	ArrayLabels	Assert_failure	Big_int	Bigarray	Buffer	Call