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Last login: Fri Feb  2 13:24:38 on ttys003
carbon:$ utop
────────┬─────────────────────────────────────────────────────────────┬────────
        │ Welcome to utop version 2.0.2 (using OCaml version 4.06.0)! │
        └─────────────────────────────────────────────────────────────┘

Type #utop_help for help about using utop.

─( 13:36:49 )─< command 0 >──────────────────────────────────────{ counter: 0 }─
utop # #use "find_and_lookup.ml";;
val m : (string * int) list =
  [("dog", 1); ("chicken", 2); ("dog", 3); ("cat", 5)]
val lookup_all : 'a -> ('a * 'b) list -> 'b list = <fun>
val find_all_by : ('a -> 'b -> bool) -> 'a -> 'b list -> 'b list = <fun>
val find_all_with : ('a -> bool) -> 'a list -> 'a list = <fun>
val find_all_by' : ('a -> 'b -> bool) -> 'a -> 'b list -> 'b list = <fun>
val find_all_with' : ('a -> bool) -> 'a list -> 'a list = <fun>
val find_all_with'' : ('a -> bool) -> 'a list -> 'a list = <fun>
─( 13:36:49 )─< command 1 >──────────────────────────────────────{ counter: 0 }─
utop # #use "find_and_lookup.ml";;
File "find_and_lookup.ml", line 52, characters 5-6:
Error: Syntax error
─( 13:37:03 )─< command 2 >──────────────────────────────────────{ counter: 0 }─
utop # #use "find_and_lookup.ml";;
val m : (string * int) list =
  [("dog", 1); ("chicken", 2); ("dog", 3); ("cat", 5)]
val lookup_all : 'a -> ('a * 'b) list -> 'b list = <fun>
val find_all_by : ('a -> 'b -> bool) -> 'a -> 'b list -> 'b list = <fun>
val find_all_with : ('a -> bool) -> 'a list -> 'a list = <fun>
val find_all_by' : ('a -> 'b -> bool) -> 'a -> 'b list -> 'b list = <fun>
val find_all_with' : ('a -> bool) -> 'a list -> 'a list = <fun>
val find_all_with'' : ('a -> bool) -> 'a list -> 'a list = <fun>
val take_while : 'a list -> ('a -> bool) -> 'a list = <fun>
─( 13:37:09 )─< command 3 >──────────────────────────────────────{ counter: 0 }─
utop # let gt4 x = x > 4 ;;
val gt4 : int -> bool = <fun>
─( 13:37:23 )─< command 4 >──────────────────────────────────────{ counter: 0 }─
utop # gt4 5 ;;
- : bool = true
─( 13:37:36 )─< command 5 >──────────────────────────────────────{ counter: 0 }─
utop # take_while [6;7;8;5;3;2;1]  gt4 ;;
- : int list = [6; 7; 8; 5]
─( 13:37:38 )─< command 6 >──────────────────────────────────────{ counter: 0 }─
utop # take_while [6;7;8;5;3;21]  gt4 ;;
- : int list = [6; 7; 8; 5]
─( 13:37:58 )─< command 7 >──────────────────────────────────────{ counter: 0 }─
utop # #use "find_and_lookup.ml";;
val m : (string * int) list =
  [("dog", 1); ("chicken", 2); ("dog", 3); ("cat", 5)]
val lookup_all : 'a -> ('a * 'b) list -> 'b list = <fun>
val find_all_by : ('a -> 'b -> bool) -> 'a -> 'b list -> 'b list = <fun>
val find_all_with : ('a -> bool) -> 'a list -> 'a list = <fun>
val find_all_by' : ('a -> 'b -> bool) -> 'a -> 'b list -> 'b list = <fun>
val find_all_with' : ('a -> bool) -> 'a list -> 'a list = <fun>
val find_all_with'' : ('a -> bool) -> 'a list -> 'a list = <fun>
val take_while : 'a list -> ('a -> bool) -> 'a list = <fun>
val drop_while : 'a list -> ('a -> bool) -> 'a list = <fun>
─( 13:38:54 )─< command 8 >──────────────────────────────────────{ counter: 0 }─
utop # drop_while gt4 [5;6;7;6;5;3;2;1;5;6;7] ;;
Error: This expression has type int -> bool
       but an expression was expected of type 'a list
─( 13:43:20 )─< command 9 >──────────────────────────────────────{ counter: 0 }─
utop # drop_while [5;6;7;6;5;3;2;1;5;6;7] gt4 ;;
- : int list = [2; 1; 5; 6; 7]
─( 13:43:35 )─< command 10 >─────────────────────────────────────{ counter: 0 }─
utop # #use "find_and_lookup.ml";;
val m : (string * int) list =
  [("dog", 1); ("chicken", 2); ("dog", 3); ("cat", 5)]
val lookup_all : 'a -> ('a * 'b) list -> 'b list = <fun>
val find_all_by : ('a -> 'b -> bool) -> 'a -> 'b list -> 'b list = <fun>
val find_all_with : ('a -> bool) -> 'a list -> 'a list = <fun>
val find_all_by' : ('a -> 'b -> bool) -> 'a -> 'b list -> 'b list = <fun>
val find_all_with' : ('a -> bool) -> 'a list -> 'a list = <fun>
val find_all_with'' : ('a -> bool) -> 'a list -> 'a list = <fun>
val take_while : 'a list -> ('a -> bool) -> 'a list = <fun>
val drop_while : 'a list -> ('a -> bool) -> 'a list = <fun>
─( 13:43:46 )─< command 11 >─────────────────────────────────────{ counter: 0 }─
utop # drop_while [5;6;7;6;5;3;2;1;5;6;7] gt4 ;;
- : int list = [3; 2; 1; 5; 6; 7]
─( 13:44:18 )─< command 12 >─────────────────────────────────────{ counter: 0 }─
utop # #use "find_and_lookup.ml";;
File "find_and_lookup.ml", line 63, characters 49-50:
Error: Syntax error
─( 13:44:20 )─< command 13 >─────────────────────────────────────{ counter: 0 }─
utop # #use "find_and_lookup.ml";;
val m : (string * int) list =
  [("dog", 1); ("chicken", 2); ("dog", 3); ("cat", 5)]
val lookup_all : 'a -> ('a * 'b) list -> 'b list = <fun>
val find_all_by : ('a -> 'b -> bool) -> 'a -> 'b list -> 'b list = <fun>
val find_all_with : ('a -> bool) -> 'a list -> 'a list = <fun>
val find_all_by' : ('a -> 'b -> bool) -> 'a -> 'b list -> 'b list = <fun>
val find_all_with' : ('a -> bool) -> 'a list -> 'a list = <fun>
val find_all_with'' : ('a -> bool) -> 'a list -> 'a list = <fun>
val take_while : 'a list -> ('a -> bool) -> 'a list = <fun>
val drop_while : 'a list -> ('a -> bool) -> 'a list = <fun>
val flip : ('a -> 'a -> 'c) -> 'a -> 'a -> 'c = <fun>
─( 13:48:09 )─< command 14 >─────────────────────────────────────{ counter: 0 }─
utop # #use "find_and_lookup.ml";;
val m : (string * int) list =
  [("dog", 1); ("chicken", 2); ("dog", 3); ("cat", 5)]
val lookup_all : 'a -> ('a * 'b) list -> 'b list = <fun>
val find_all_by : ('a -> 'b -> bool) -> 'a -> 'b list -> 'b list = <fun>
val find_all_with : ('a -> bool) -> 'a list -> 'a list = <fun>
val find_all_by' : ('a -> 'b -> bool) -> 'a -> 'b list -> 'b list = <fun>
val find_all_with' : ('a -> bool) -> 'a list -> 'a list = <fun>
val find_all_with'' : ('a -> bool) -> 'a list -> 'a list = <fun>
val take_while : 'a list -> ('a -> bool) -> 'a list = <fun>
val drop_while : 'a list -> ('a -> bool) -> 'a list = <fun>
val flip : ('a -> 'b -> 'c) -> 'b -> 'a -> 'c = <fun>
─( 13:48:25 )─< command 15 >─────────────────────────────────────{ counter: 0 }─
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utop # flip drop_while ;;
- : ('_weak1 -> bool) -> '_weak1 list -> '_weak1 list = <fun>
─( 13:49:04 )─< command 16 >──────────────────────────────────────{ counter: 0 }─
utop # #use "find_and_lookup.ml";;
val m : (string * int) list =
  [("dog", 1); ("chicken", 2); ("dog", 3); ("cat", 5)]
val lookup_all : 'a -> ('a * 'b) list -> 'b list = <fun>
val find_all_by : ('a -> 'b -> bool) -> 'a -> 'b list -> 'b list = <fun>
val find_all_with : ('a -> bool) -> 'a list -> 'a list = <fun>
val find_all_by' : ('a -> 'b -> bool) -> 'a -> 'b list -> 'b list = <fun>
val find_all_with' : ('a -> bool) -> 'a list -> 'a list = <fun>
val find_all_with'' : ('a -> bool) -> 'a list -> 'a list = <fun>
val take_while : 'a list -> ('a -> bool) -> 'a list = <fun>
val drop_while : 'a list -> ('a -> bool) -> 'a list = <fun>
val flip : ('a -> 'a -> 'c) -> 'a -> 'a -> 'c = <fun>
─( 13:51:20 )─< command 17 >──────────────────────────────────────{ counter: 0 }─
utop # #use "find_and_lookup.ml";;
val m : (string * int) list =
  [("dog", 1); ("chicken", 2); ("dog", 3); ("cat", 5)]
val lookup_all : 'a -> ('a * 'b) list -> 'b list = <fun>
val find_all_by : ('a -> 'b -> bool) -> 'a -> 'b list -> 'b list = <fun>
val find_all_with : ('a -> bool) -> 'a list -> 'a list = <fun>
val find_all_by' : ('a -> 'b -> bool) -> 'a -> 'b list -> 'b list = <fun>
val find_all_with' : ('a -> bool) -> 'a list -> 'a list = <fun>
val find_all_with'' : ('a -> bool) -> 'a list -> 'a list = <fun>
val take_while : 'a list -> ('a -> bool) -> 'a list = <fun>
val drop_while : 'a list -> ('a -> bool) -> 'a list = <fun>
val flip : ('a -> 'a -> 'c) -> 'a -> 'a -> 'c = <fun>
val compose : ('a -> 'b) -> ('c -> 'a) -> 'c -> 'b = <fun>
─( 13:54:23 )─< command 18 >──────────────────────────────────────{ counter: 0 }─
utop # #use "find_and_lookup.ml";;
val m : (string * int) list =
  [("dog", 1); ("chicken", 2); ("dog", 3); ("cat", 5)]
val lookup_all : 'a -> ('a * 'b) list -> 'b list = <fun>
val find_all_by : ('a -> 'b -> bool) -> 'a -> 'b list -> 'b list = <fun>
val find_all_with : ('a -> bool) -> 'a list -> 'a list = <fun>
val find_all_by' : ('a -> 'b -> bool) -> 'a -> 'b list -> 'b list = <fun>
val find_all_with' : ('a -> bool) -> 'a list -> 'a list = <fun>
val find_all_with'' : ('a -> bool) -> 'a list -> 'a list = <fun>
val take_while : 'a list -> ('a -> bool) -> 'a list = <fun>
val drop_while : 'a list -> ('a -> bool) -> 'a list = <fun>
val flip : ('a -> 'a -> 'c) -> 'a -> 'a -> 'c = <fun>
val compose : ('a -> 'b) -> ('c -> 'a) -> 'c -> 'b = <fun>
val compose' : ('a -> 'b) -> ('c -> 'a) -> 'c -> 'b = <fun>
─( 13:59:24 )─< command 19 >──────────────────────────────────────{ counter: 0 }─
utop # let inc x = x + 1 ;;
val inc : int -> int = <fun>
─( 14:00:44 )─< command 20 >──────────────────────────────────────{ counter: 0 }─
utop # let sq x = x * x ;;
val sq : int -> int = <fun>
─( 14:01:09 )─< command 21 >──────────────────────────────────────{ counter: 0 }─
utop # let f = compose inc sq
;;
val f : int -> int = <fun>
─( 14:01:13 )─< command 22 >──────────────────────────────────────{ counter: 0 }─
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utop # f 4 ;;
- : int = 17
─( 14:01:23 )─< command 23 >─────────────────────────────────────{ counter: 0 }─
utop #
│Arg│Array│ArrayLabels│Assert_failure│Bigarray│Buffer│Bytes│BytesLabels│Callbac│
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