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Last login: Wed Apr 25 13:10:58 on ttys006
carbon:$ pwd
/project/evw/Teaching/18_Spring_2041/carbon-repos/public-c
lass-repo/Sample Programs/Sec_01_1-25pm
carbon:$ utop
```

Welcome to utop version 2.0.2 (using OCaml version 4.06.0)

Type #utop_help for help about using utop.

```
-( 13:40:53 )-< command 0 >——————————————————{ counter: 0 }—
utop # #use "continuation.ml";;
type 'a tree = Empty | Fork of 'a tree * 'a * 'a tree
val t : int tree =
  Fork
   (Fork (Fork (Empty, 1, Empty), 2,
     Fork (Empty, 3, Empty)),
    4,
    Fork (Fork (Empty, 5, Empty), 6,
     Fork (Empty, 7, Empty)))
val flatten : 'a tree -> 'a list = <fun>
val flatten_c : 'a tree -> 'a list = <fun>
val id : 'a -> 'a = <fun>
val tail_fact_rec : int -> (int -> 'a) -> 'a = <fun>
val tail_fact : int -> int = <fun>
val print_fact : int -> unit = <fun>
val fact : int -> int = <fun>
exception InvalidArgument
val tail_fib : int -> int = <fun>
val sum_range : (int -> int) -> int -> int -> int -> int =
  <fun>
val map : ('a -> 'b) -> 'a list -> 'b list = <fun>
val map_c : ('a -> 'b) -> 'a list -> 'b list = <fun>
val tail_fold_right :
  ('a -> 'b -> 'b) -> 'a list -> 'b -> 'b = <fun>
val tail_filter : ('a -> bool) -> 'a list -> 'a list =
  <fun>
```

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val tail_filter2 : ('a -> bool) -> 'a list -> 'a list =
  <fun>
```
-(13:40:53)-< command 1 >────────────────{ counter: 0 }-
utop # fact 4 ;;
- : int = 24
-(13:40:56)-< command 2 >────────────────{ counter: 0 }-
utop # tail_fact 24 ;;
- : int = 1388186055525531648
-(13:41:04)-< command 3 >────────────────{ counter: 0 }-
utop # tail_fact 4 ;;
- : int = 24
-(13:41:09)-< command 4 >────────────────{ counter: 0 }-
utop # print_fact 4 ;;
Factorial of 4 is 24.
- : unit = ()
-(13:41:22)-< command 5 >────────────────{ counter: 0 }-
utop # #quit ;;
carbon:$