```
Last login: Fri Mar 23 15:36:29 on ttys008
carbon:$ pwd
/project/evw/Teaching/18_Spring_2041/carbon-repos/public-class-repo/Sam
ple Programs/Sec_10_3-35pm/Intervals
carbon:$ up
/project/evw/Teaching/18_Spring_2041/carbon-repos/public-class-repo/Sam
ple Programs/Sec_10_3-35pm
carbon:$ en session_info.ml
carbon:$ en session_info.ml
carbon:$ utop
```

```
        Welcome to utop version 2.0.2 (using OCaml version 4.06.0)!

Type #utop_help for help about using utop.

─( 15:48:42 )─< command 0 >──────────────────────────────{ counter: 0 }─
utop # #use "session_info.ml";;
module type ID =
  sig
    type t
    val of_string : string -> t
    val to_string : t -> string
  end
module String_id :
  sig
    type t = string
    val of_string : 'a -> 'a
    val to_string : 'a -> 'a
    val append : t -> t -> t
  end
module Username : ID
module Hostname : ID
val app2 : string -> string -> string = <fun>
type session_info = {
  user : Username.t;
  host : Hostname.t;
  when_started : int;
}
val sessions_have_same_user : session_info -> session_info -> bool =
  <fun>
val app : Username.t -> Username.t -> Username.t = <fun>
─( 15:48:42 )─< command 1 >──────────────────────────────{ counter: 0 }─
utop # #quit;;
carbon:$ pwd
/project/evw/Teaching/18_Spring_2041/carbon-repos/public-class-repo/Sam
```

```
ple Programs/Sec_10_3-35pm
carbon:$ cd Intervals/v3
carbon:$ ocamlbuild useIntInterval.byte
Finished, 0 targets (0 cached) in 00:00:00.
carbon:$ ./useIntInterval.byte
An interval: (3, 4)
Another interval: (3, 6)
Their intresection: (3, 4)
carbon:$ utop
```

```
        Welcome to utop version 2.0.2 (using OCaml version 4.06.0)!

Type #utop_help for help about using utop.

─( 15:53:56 )─< command 0 >──────────────────────────────────{ counter: 0 }─
utop # #mod_use "intervals.ml";;
module Intervals :
  sig
    module IntInterval :
      sig
        type t
        val create : int -> int -> t
        val is_empty : t -> bool
        val contains : t -> int -> bool
        val intersect : t -> t -> t
        val to_string : t -> string
      end
  end
─( 15:53:56 )─< command 1 >──────────────────────────────────{ counter: 0 }─
utop # #use "useIntInterval.ml";;
val i1 : IntInterval.t = <abstr>
val i2 : IntInterval.t = <abstr>
An interval: (3, 4)
Another interval: (3, 6)
Their intresection: (3, 4)
─( 15:54:06 )─< command 2 >──────────────────────────────────{ counter: 0 }─
utop # #quit;;
carbon:$ cd ../v4/
carbon:$ ls
_build/                 stringInterval.ml~
intInterval.ml          useInterval.byte*
intervals.ml            useInterval.ml
stringInterval.ml
carbon:$ ocamlbuild useInterval.byte
Finished, 0 targets (0 cached) in 00:00:00.
```

```
carbon:$ ./useInterval.byte
An interval: (3, 4)
Another interval: (3, 6)
Their intresection: (3, 4)
A string interval: (a, d)
carbon:$
```