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

Type #utop_help for help about using utop.

```
utop # #use "lazy.ml";;
type 'a lazee = 'a hidden ref
and 'a hidden = Value of 'a | Thunk of (unit -> 'a)
val delay : (unit -> 'a) -> 'a lazee = <fun>
val force : 'a lazee -> unit = <fun>
val demand : 'a lazee -> 'a = <fun>
type 'a stream = Cons of 'a * 'a stream lazee
val from : int -> int stream = <fun>
step 1
val nats : int stream = Cons (1, {contents = Thunk <fun>})
-( 14:08:24 )-< command 1 >----
                                           _____{ counter: 0 }-
utop # nats ;;
-: int stream = Cons (1, {contents = Thunk <fun>})

( 14:00:27 ) - command ? > - { counter: 0 }-
utop # nats ;;
-: int stream = Cons (1, {contents = Thunk <fun>})

(11 00:21 ) = command 3
utop # hd nats ;;
Error: Unbound value hd
utop # #use "lazy.ml";;
type 'a lazee = 'a hidden ref
and 'a hidden = Value of 'a | Thunk of (unit -> 'a)
val delay : (unit -> 'a) -> 'a lazee = <fun>
val force : 'a lazee -> unit = <fun>
val demand : 'a lazee -> 'a = <fun>
type 'a stream = Cons of 'a * 'a stream lazee
val from : int -> int stream = <fun>
step 1
val nats : int stream = Cons (1, {contents = Thunk <fun>})
                                             _____{ counter: 0 }-
-( 14:11:20 )-< command 5 >---
utop # hd nats ;;
Error: Unbound value hd
utop # #use "lazy.ml";;\
type 'a lazee = 'a hidden ref
and 'a hidden = Value of 'a | Thunk of (unit -> 'a)
val delay : (unit -> 'a) -> 'a lazee = <fun>
val force : 'a lazee -> unit = <fun>
val demand : 'a lazee -> 'a = <fun>
type 'a stream = Cons of 'a * 'a stream lazee
val from : int -> int stream = <fun>
step 1
```

```
val nats : int stream = Cons (1, {contents = Thunk <fun>})
val head : 'a stream -> 'a = <fun>
val tail : 'a stream -> 'a stream = <fun>
val take : int -> 'a stream -> 'a list = <fun>
                                  { counter: 0 }-
-( 14:11:27 )-< command 7 >----
utop # hd nats ;;
Error: Unbound value hd
utop # #use "lazv.ml";;
type 'a lazee = 'a hidden ref
and 'a hidden = Value of 'a | Thunk of (unit -> 'a)
val delay : (unit -> 'a) -> 'a lazee = <fun>
val force : 'a lazee -> unit = <fun>
val demand : 'a lazee -> 'a = <fun>
type 'a stream = Cons of 'a * 'a stream lazee
val from : int -> int stream = <fun>
step 1
val nats : int stream = Cons (1, {contents = Thunk <fun>})
val head : 'a stream -> 'a = <fun>
val tail : 'a stream -> 'a stream = <fun>
val take : int -> 'a stream -> 'a list = <fun>
                                    _____{{ counter: 0 }-
-( 14:11:39 )-< command 9 >----
utop # hd nats ;;
Error: Unbound value hd
utop # head nats ;;
-: int = 1
utop # tail nats ;;
step 2
-: int stream = Cons (2, {contents = Thunk <fun>})
                            { counter: 0 }-
-( 14:11:51 )-< command 12 >----
utop # nats ;;
- : int stream =
Cons (1, {contents = Value (Cons (2, {contents = Thunk <fun>}))})
-( 14:11:56 )-< command 13 >-----
                                     _____{ counter: 0 }-
utop # take 5 nats ;;
step 3
step 4
step 5
step 6
-: int list = [1; 2; 3; 4; 5]
utop # nats ;;
- : int stream =
Cons (1.
{contents =
  Value
   (Cons (2,
    {contents =
      Value
       (Cons (3)
```