

Last login: Fri Apr 7 15:23:42 on ttys015
carbon:MyCopiesForSecs\$ cd ../Sec_10_3\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 "search_options.ml";;
val gen_subsets : 'a list -> 'a list list = <fun>
val gen_subset : 'a list -> 'a list list = <fun>
val s : int list = [1; 3; -2; 5; -6]
val sum : int list -> int = <fun>
val subsetsum_v1 : int list -> int list option = <fun>
val subsetsum_option_v2 : int list -> int list = <fun>
val show_list : ('a -> string) -> 'a list -> string = <fun>
val is_elem : 'a -> 'a list -> bool = <fun>
val explode : string -> char list = <fun>
val implode : char list -> string = <fun>
val process_solution_option : ('a -> string) -> 'a -> 'a option = <fun>
val subsetsum_option : int list -> int list option = <fun>
-( 15:46:03 )-< command 1 >-----{ counter: 0 }-
utop # subsetsum_option s ;;
Here is a solution: [ 1; 5; -6 ]
Do you like it ?
y
Thanks for playing...
- : int list option = Some [1; 5; -6]
-( 15:46:07 )-< command 2 >-----{ counter: 0 }-
utop # subsetsum_option s ;;
Here is a solution: [ 1; 5; -6 ]
Do you like it ?
n
Here is a solution: [ 3; -2; 5; -6 ]
Do you like it ?
y
Thanks for playing...
- : int list option = Some [3; -2; 5; -6]
-( 15:46:20 )-< command 3 >-----{ counter: 0 }-
utop # subsetsum_option s ;;
Here is a solution: [ 1; 5; -6 ]
Do you like it ?
y
Thanks for playing...
- : int list option = Some [1; 5; -6]
-( 15:46:33 )-< command 4 >-----{ counter: 0 }-
utop # subsetsum_option s ;;
Here is a solution: [ 1; 5; -6 ]
Do you like it ?
n
Here is a solution: [ 3; -2; 5; -6 ]
Do you like it ?
n
- : int list option = None
```

```
-( 15:46:47 )-< command 5 >-----{ counter: 0 }-
utop # #quit ;;
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 "search_exceptions.ml";;
exception FoundSubSet of int list
val run : 'a -> unit = <fun>
File "search_exceptions.ml", line 40, characters 7-10:
Error: Unbound value sum
-( 16:04:01 )-< command 1 >-----{ counter: 0 }-
utop # #use "search_exceptions.ml";;
val sum : int list -> int = <fun>
val show_list : ('a -> string) -> 'a list -> string = <fun>
val is_elem : 'a -> 'a list -> bool = <fun>
val explode : string -> char list = <fun>
val implode : char list -> string = <fun>
exception FoundSubSet of int list
val run : 'a -> unit = <fun>
val subsetsum_exn_on_found : int list -> int list option = <fun>
exception KeepLooking
val subsetsum_exn_not_found : int list -> int list option = <fun>
val process_solution_exn : ('a -> string) -> 'a -> 'a option = <fun>
val subsetsum_exn : int list -> int list option = <fun>
-( 16:04:05 )-< command 2 >-----{ counter: 0 }-
utop # subsetsum_exn_on_found
s ;;
Error: Unbound value s
-( 16:04:39 )-< command 3 >-----{ counter: 0 }-
utop # subsetsum_exn_on_found
s ;;
Error: Unbound value s
-( 16:04:54 )-< command 4 >-----{ counter: 0 }-
utop # #use "search_exceptions.ml";;
val s : int list = [1; 3; -2; 5; -6]
val sum : int list -> int = <fun>
val show_list : ('a -> string) -> 'a list -> string = <fun>
val is_elem : 'a -> 'a list -> bool = <fun>
val explode : string -> char list = <fun>
val implode : char list -> string = <fun>
exception FoundSubSet of int list
val run : 'a -> unit = <fun>
val subsetsum_exn_on_found : int list -> int list option = <fun>
exception KeepLooking
val subsetsum_exn_not_found : int list -> int list option = <fun>
val process_solution_exn : ('a -> string) -> 'a -> 'a option = <fun>
val subsetsum_exn : int list -> int list option = <fun>
-( 16:05:15 )-< command 5 >-----{ counter: 0 }-
utop # subsetsum_exn_on_found
s ;;
- : int list option = Some [1; 5; -6]
```

```

-( 16:05:17 )-< command 6 >-----{ counter: 0 }-
utop # subsetsum_exn s ;;
Here is a solution:
[ 1; 5; -6 ]
Do you like it?
y
Thanks for playing...
- : int list option = Some [1; 5; -6]
-( 16:05:19 )-< command 7 >-----{ counter: 0 }-
utop # #use "search_exceptions.ml";;
val s : int list = [1; 3; -2; 5; -6]
val sum : int list -> int = <fun>
val show_list : ('a -> string) -> 'a list -> string = <fun>
val is_elem : 'a -> 'a list -> bool = <fun>
val explode : string -> char list = <fun>
val implode : char list -> string = <fun>
exception FoundSubSet of int list
val run : 'a -> unit = <fun>
val subsetsum_exn_on_found : int list -> int list option = <fun>
exception KeepLooking
val subsetsum_exn_not_found : int list -> int list option = <fun>
val process_solution_exn : ('a -> string) -> 'a -> 'a option = <fun>
val subsetsum_exn : int list -> int list option = <fun>
val subsetsum_exn_continuation :
  int list -> (int list -> int list option) -> int list option = <fun>
val subsetsum_exn_v1 : int list -> int list option = <fun>
val subsetsum_exn_first : int list -> int list option = <fun>
val subsetsum_exn_print_all : int list -> int list option = <fun>
val results : '_a list ref = {contents = []}
val subsetsum_exn_save_all : int list -> int list option = <fun>
-( 16:05:35 )-< command 8 >-----{ counter: 0 }-
utop # subsetsum_exn_v1 s ;;
Here is a solution:
[ 1; 5; -6 ]
Do you like it?
y
Thanks for playing...
- : int list option = Some [1; 5; -6]
-( 16:11:16 )-< command 9 >-----{ counter: 0 }-
utop # subsetsum_exn_first s ;;
- : int list option = Some [1; 5; -6]
-( 16:11:29 )-< command 10 >-----{ counter: 0 }-
utop # subsetsum_exn_print_all s ;;
Here you go: [ 1; 5; -6 ]
Here you go: [ 3; -2; 5; -6 ]
- : int list option = None
-( 16:11:36 )-< command 11 >-----{ counter: 0 }-
utop # results ;;
- : int list list ref = {contents = []}
-( 16:11:44 )-< command 12 >-----{ counter: 0 }-
utop # ! results ;;
- : int list list = []
-( 16:12:47 )-< command 13 >-----{ counter: 0 }-
utop # subsetsum_exn_save_all s ;;
[ 1; 5; -6 ]
[ 3; -2; 5; -6 ]

```

```

- : int list option = None
-( 16:12:52 )-< command 14 >-----{ counter: 0 }-
utop # ! results ;;
- : int list list = [[3; -2; 5; -6]; [1; 5; -6]]
-( 16:13:02 )-< command 15 >-----{ counter: 0 }-
utop # subsetsum_exn_save_all s ;;
[ 1; 5; -6 ]
[ 3; -2; 5; -6 ]
- : int list option = None
-( 16:13:09 )-< command 16 >-----{ counter: 0 }-
utop # ! results ;;
- : int list list = [[3; -2; 5; -6]; [1; 5; -6]; [3; -2; 5; -6]; [1; 5; -6]]
-( 16:13:15 )-< command 17 >-----{ counter: 0 }-
utop # #quit ;;
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 "subsetsum_cps.ml";;
val show_list : ('a -> string) -> 'a list -> string = <fun>
val is_elem : 'a -> 'a list -> bool = <fun>
val sum : int list -> int = <fun>
File "subsetsum_cps.ml", line 47, characters 21-28:
Error: Unbound value explode
-( 16:19:54 )-< command 1 >-----{ counter: 0 }-
utop # #use "subsetsum_cps.ml";;
val show_list : ('a -> string) -> 'a list -> string = <fun>
val is_elem : 'a -> 'a list -> bool = <fun>
val explode : string -> char list = <fun>
val implode : char list -> string = <fun>
val sum : int list -> int = <fun>
val process_solution_cps_v1 :
  ('a -> string) -> 'a -> (unit -> 'b) -> (unit -> 'b) -> 'b = <fun>
val try_subset_cps_v1 : int list -> int list -> (unit -> 'a) -> (unit -> 'a) -> 'a =
  <fun>
val subsetsum_cps_v1 : int list -> unit = <fun>
-( 16:20:04 )-< command 2 >-----{ counter: 0 }-
utop # subsetsum_cps_v1 [ 1; 3; -2; 5; -6 ] ;;
Here is a solution:
[ 1; 5; -6 ]
Do you like it?
y
Yeah, we found one
- : unit = ()
-( 16:21:00 )-< command 3 >-----{ counter: 0 }-
utop #

```

Arg	Arith_status	Array	ArrayLabels	Assert_failure	Big_int	Bigarray	Buffer	Callback
------------	--------------	-------	-------------	----------------	---------	----------	--------	----------