

```

Quiz02-01-test:
(* ***** *)
use "./quiz02-01.sml";
(* ***** *)

local

exception ERROR_quiz02_01

(* ***** *)

in (*local*)

(* ***** *)

val () =
assert320
(quiz02_01("$abb^ccccddd")(#"0") = 0)
val () =
assert320
(quiz02_01("$abb^ccccddd")(#"1") = 0)
val () =
assert320
(quiz02_01("$abb^ccccddd")(#"a") = 1)
val () =
assert320
(quiz02_01("$abb^ccccddd")(#"b") = 2)
val () =
assert320
(quiz02_01("$abb^ccccddd")(#"c") = 3)
val () =
assert320
(quiz02_01("$abb^ccccddd")(#"d") = 4)
val () =
assert320
(quiz02_01("$abb^ccccddd")(#"x") = 0)
val () =
assert320
(quiz02_01("$abb^ccccddd")(#"Y") = 0)
val () =
assert320
(quiz02_01("$abb^ccccddd")(#"Z") = 0)
val () =
assert320

```

```

(quiz02_01("$abb^ccccddd")("#$") = 1)
val () =
assert320
(quiz02_01("$abb^ccccddd")("#^") = 1)

(* ***** *)

end(*end-of-local*)

(* ***** *)

(* end of [CS320-2023-Spring-quizzes-quiz02_01.sml] *)

```

Quiz02-02-test:

```

(* ***** *)
use "./quiz02-02.sml";
(* ***** *)

(*
//
HX-2023-02-20: 60 points
//
Please implement a function of the name quiz02_02
that takes two lists xs and ys of integers and checks
whether there exists a pair (x, y) such that  $|x-y| < 10$ 
where x is in xs and y is in ys.
//
*)

(* ***** *)

local

exception ERROR_quiz02_01

(* ***** *)

in (*local*)

(* ***** *)

val xs = []
val ys = [1,2,3]
val () =

```

```

assert320
(quiz02_02(xs, ys) = false)

(* ***** *)

val xs = [1,2,3,4,5]
val ys = [15,20,30,40,50]
val () =
assert320
(quiz02_02(xs, ys) = false)

(* ***** *)

val xs = [1,2,3,4,5]
val ys = [15,20,30,40,~8]
val () =
assert320(quiz02_02(xs, ys) = true)

(* ***** *)

end(*end-of-local*)

(* ***** *)

(* end of [CS320-2023-Spring-quizzes-quiz02_02.sml] *)

```