```
Ouiz02-01:
(* ***** ***** *)
use "./../../mysmlib/mysmlib-cls.sml";
(* ***** ***** *)
val strlen = (* length *)
foreach_to_length(string_foreach)
val strsub = (* subscripting *)
foreach to get at(string foreach)
(* ***** ***** *)
(*
HX-2023-02-20:
Please implement a function
[quiz02_01' of the following type:
//
fun
quiz02_01
(word: string): char -> int =
Given a word 'word' (of the type string),
'quiz02_01(word)' returns a function of the
type 'char -> int'; when applied to a char,
this function returns the number of times this
char appears in 'word'.
For instance, we have
quiz02 01("$abb^cccdddd")(#"0") = 0
quiz02_01("$abb^cccdddd")(#"1") = 0
quiz02_01("$abb^cccdddd")(#"a") = 1
quiz02 01("$abb^cccdddd")(#"b") = 2
quiz02 01("$abb^cccdddd")(#"c") = 3
quiz02_01("$abb^cccdddd")(#"d") = 4
quiz02_01("$abb^cccdddd")(#"z") = 0
quiz02 01("$abb^cccdddd")(#"$") = 1
quiz02 01("$abb^cccdddd")(#"^") = 1
*)
```

```
fun quiz02_01 (word: string) : int = ??

(* ***** ***** *)

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

```
Quiz02-02:
(* ***** ***** *)
use "./../../mysmlib/mysmlib-cls.sml";
(* ***** ***** *)
(*
11
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.
11
*)
(* ***** ***** *)
val abs =
fn(x:int) \Rightarrow if x >= 0 then x else ~x
(* ***** ***** *)
val quiz02_02 : (int list * int list) : bool = ??
(* ***** ***** *)
(* end of [CS320-2023-Spring-quizzes-quiz02_02.sml] *)
```