READING LINES FROM THE STANDARD INPUT (10/10 points)

The code given in the template is an attempt to reading a list of lines from the standard input, slightly different from the one shown in the course notes.
At first sight, it behaves well.

```
# read_lines ();;
Hello
mister
the
caml!
- : string list = [ "Hello" ; "mister" ; "the" ; "caml!" ]
```

But if you call this function several times, you get unexpected results.

1. Study the code, to understand what is going on, compare with the example shown in the course, and then fix this code.

Important note: it is not possible to implement reading functions that actually ask the user to input something in the current toplevel environment.
For that, the environment defines an alternative version of `read_line` that simulates user interaction. Some calls will return a string, some others will (less often) raise `End_of_file`.

YOUR OCAML ENVIRONMENT

```
let read_lines () =
  let sl = ref [] in
  let rec aux () =
    try
      sl := read_line () :: !sl ;
      aux ()
    with
      End_of_file -> () in
  aux ();
  List.rev !sl;;
```

Evaluate >
Switch >>
Typecheck
Reset Templ
Full-screen
Check & Sa

Exercise complete (click for details) 10 pts

v Exercise 1: `read_lines` Completed, 10 pts

Found `read_lines` with compatible type.

Computing `read_lines ()`

This time, the input sequence is:

```
Never gonna give you up.
Never gonna make you cry.
Never gonna let you down
```

Correct value 1 pt

```
["Never gonna give you up."; "Never gonna make you cry.";
 "Never gonna let you down"]
```

Computing `read_lines ()`

This time, the input sequence is:

```
Never gonna make you cry.
Never gonna let you down
Never gonna tell a lie and hurt you.
```

Correct value 1 pt

```
["Never gonna make you cry."; "Never gonna let you down";
 "Never gonna tell a lie and hurt you."]
```

```
  Never gonna give you up.
  Never gonna say goodbye.
  Never gonna let you down
```
Correct value 1 pt
```
  ["Never gonna make you cry."; "Never gonna give you up.";
   "Never gonna say goodbye."; "Never gonna let you down"]
```
Computing `read_lines ()`

This time, the input sequence is:
```
  Never gonna say goodbye.
  Never gonna let you down
  Never gonna run around and desert you.
```
Correct value 1 pt
```
  ["Never gonna say goodbye."; "Never gonna let you down";
   "Never gonna run around and desert you."]
```
Computing `read_lines ()`

This time, the input sequence is:
```
  Never gonna give you up.
  Never gonna run around and desert you.
  Never gonna say goodbye.
  Never gonna give you up.
  Never gonna tell a lie and hurt you.
  Never gonna run around and desert you.
```
Correct value 1 pt
```
  ["Never gonna give you up."; "Never gonna run around and desert you.";
   "Never gonna say goodbye."; "Never gonna give you up.";
   "Never gonna tell a lie and hurt you.";
   "Never gonna run around and desert you."]
```
Computing `read_lines ()`

This time, the input sequence is:

Correct value `[]` 1 pt

Computing `read_lines ()`

This time, the input sequence is:
```
  Never gonna tell a lie and hurt you.
  Never gonna let you down
  Never gonna run around and desert you.
  Never gonna give you up.
  Never gonna say goodbye.
```
Correct value 1 pt
```
  ["Never gonna tell a lie and hurt you."; "Never gonna let you down";
   "Never gonna run around and desert you."; "Never gonna give you up.";
   "Never gonna say goodbye."]
```
Computing `read_lines ()`

This time, the input sequence is:
```
  Never gonna let you down
  Never gonna make you cry.
```
Correct value `["Never gonna let you down"; "Never gonna make you cry."]` 1 pt

Computing `read_lines ()`

This time, the input sequence is:
```
  Never gonna give you up.
  Never gonna run around and desert you.
  Never gonna run around and desert you.
```
Correct value 1 pt
```
  ["Never gonna give you up."; "Never gonna run around and desert you.";
   "Never gonna run around and desert you."]
```
Computing `read_lines ()`

This time, the input sequence is:
```
  Never gonna make you cry.
  Never gonna tell a lie and hurt you.
```
Correct value `["Never gonna make you cry."; "Never gonna tell a lie and hurt you."]` 1 pt