- Introduction
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- **▼** Basic types, definitions and functions

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Week 1 Echéance le déc 12, 2016 at 23:30 UTC

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- Basic data structures
- More advanced data structures
- Higher order functions

# STRING EXPRESSIONS (5/5 points)

What is the result of compiling and evaluating "12" + "34"?

Syntax error.
● Type error. ✔
O 46
O 1234
© "1234"

The **string-concatenation** operator is ^ . The + operator is only the integer addition.

What is the result of compiling and evaluating

- Syntax error.
- Type error.
- 12345
- "12345"

• The string\_of\_int function pretty-prints an integer into a string. The evaluation of (string\_of\_int 3) is then the string "3"

- Exceptions, input/output and imperative constructs
- Modules and data abstraction

• String literals are always written between double quotes, even by the generic printer included in the OCaml toplevel.

What is the result of compiling and evaluating "12" ^ string of int 3 ^ "45" ?

- Syntax error.
- Type error.
- 0 12345
- "12345"

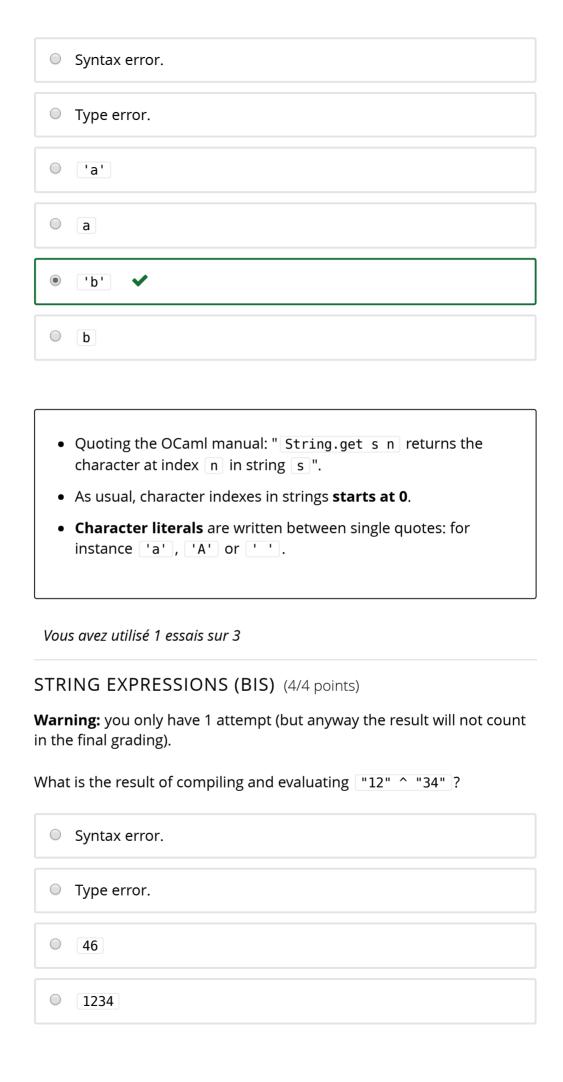
Function application has a higher priority than the basic infix operators ( + , \*. , ^ , mod , ...). Then, this expression is read: "12" ^ (string\_of\_int 3) ^ "45"

What is the result of compiling and evaluating

"She texted me: "hi :-)"!!!" ?

- Syntax error.
- Type error.
- □ "She texted me: "hi :-)"!!!"
  - As usual, special characters in string needs to be **escaped**, e.g. in this particular string the " character.
  - A correct string constant could be "She texted me: \"hi :-)\"!!!"

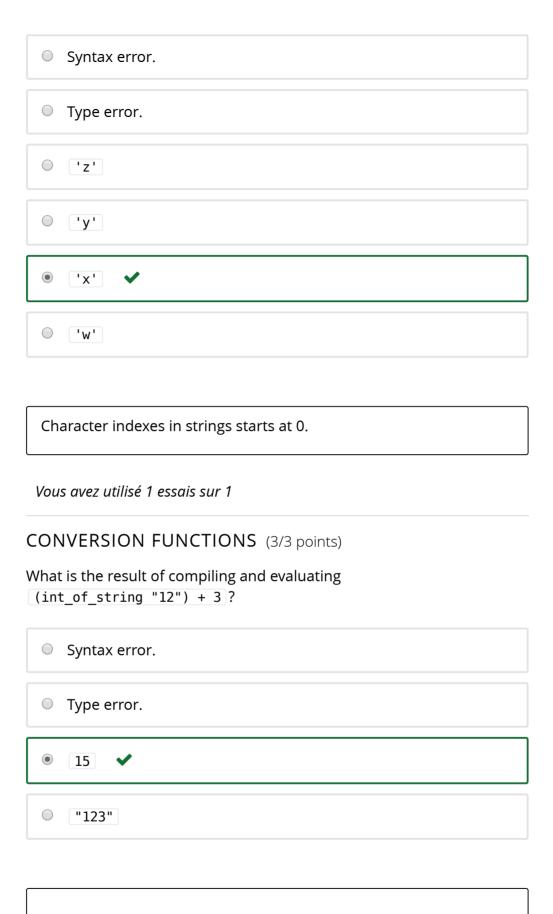
What is the result of compiling and evaluating String.get "abcd" 1?



"1234" The ^ operator is the string concatenation. What is the result of compiling and evaluating 12 + "34"? Syntax error. ● Type error. 9 46 1234 "1234" No implicit conversion between types in OCaml. What is the result of compiling and evaluating "She texted me: \"hi :-)\"!!!" ? Syntax error. Type error. She texted me: "hi :-)"!!! "She texted me: \"hi :-)\"!!!" ✔

This string literal is properly escaped.

What is the result of compiling and evaluating String.get "zyxw" 2?



- The int\_of\_string function returns the integer value read in its string argument. Or fails, if its argument does not represent an integer.
- The sub-expression (int\_of\_string "12") evaluates into the integer value of 12.

What is the result of compiling and evaluating float\_of\_string "12.5" +. 2.5 ? Syntax error. Type error. 15. "12.52.5" Function application has greater priority than the basic infix operators like +.; the expression is read (float\_of\_string "12.5") +. 2.5 . It is a valid floating-point expression. What replacement for the function f renders the expression f 3. ^ "1415" correct? string of int string\_of\_float 🗸 int\_of\_float int\_of\_string float\_of\_int float\_of\_string • This expression is read as: (f 3.) ^ "1415".

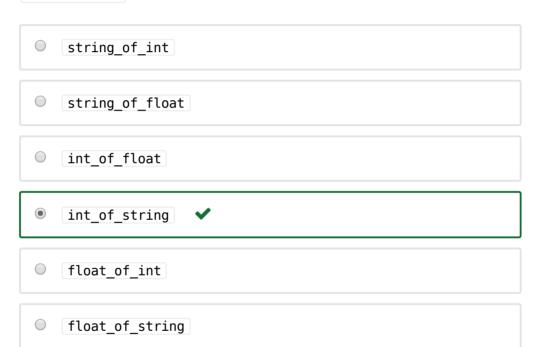
- For the expression to be valid, the sub-expression (f 3.) should be of type string.
- The literal 3. being a float literal, the f function should be a function that receives a float and returns a string.

Vous avez utilisé 1 essais sur 3

# CONVERSION FUNCTIONS (BIS) (4/4 points)

**Warning:** you only have 1 attempt (but anyway the result will not count in the final grading).

What replacement for the function f renders the expression f "3" + 1415 correct?



This is the integer addition and "3" is a string literal.

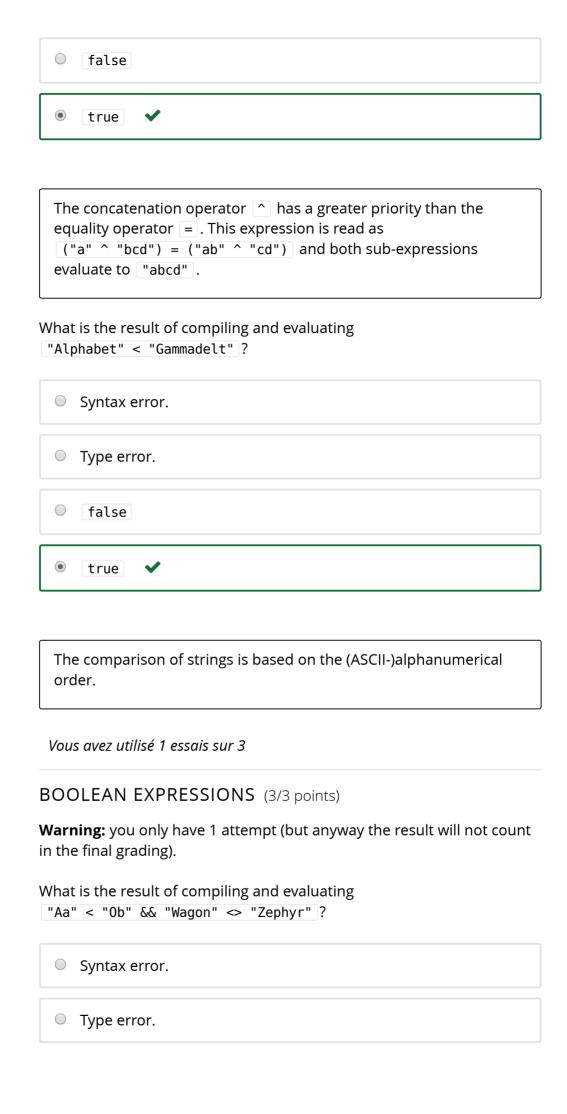
What replacement for the function f renders the expression f 3 ^ "1415" correct?

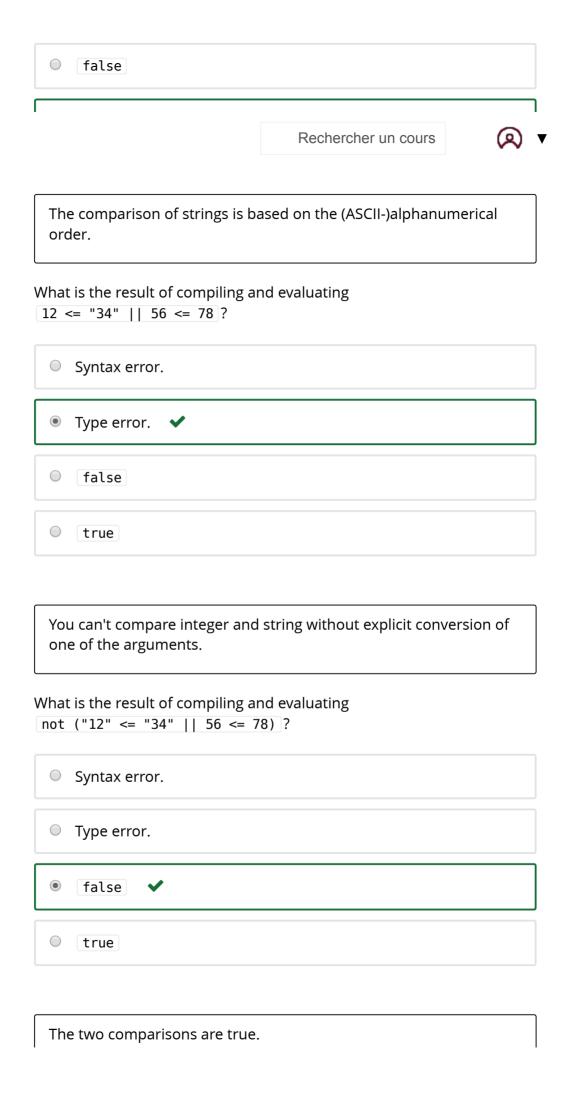
```
string_of_int

string_of_float
```

```
int_of_float
    int_of_string
    float_of_int
  float_of_string
  This is a string concatenation and 3 is an integer literal.
What replacement for the function f renders the expression
f 3 +. 1415. correct?
     string_of_int
    string_of_float
  int_of_float
  int_of_string
    float_of_int 🗸
  float_of_string
 This is a floating-point addition and 3 is an integer literal.
What replacement for the function f renders the expression
f 3 < "1415" correct?
    string_of_int 🗸
    string_of_float
```

<pre>int_of_float</pre>
<pre>int_of_string</pre>
<pre>float_of_int</pre>
O float_of_string
This is a polymorphic comparison against a string and 3 is an
integer literal.
Vous avez utilisé 1 essais sur 1
COMPARISON EXPRESSIONS (3/3 points)
What is the result of compiling and evaluating "abcd" = ("ab" ^ "cd") ?
O Syntax error.
O Type error.
O false
• true 🗸
Polymorphic comparison operators are able to compare strings.
What is the result of compiling and evaluating  "a" ^ "bcd" = "ab" ^ "cd" ?
Syntax error.
, and the second





## Vous avez utilisé 1 essais sur 1



Rechercher un cours





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