- Introduction and overview
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- Basic types, definitions and functions

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Recursion

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

SYNTAX OF BOOLEAN OPERATIONS (2/2 points)

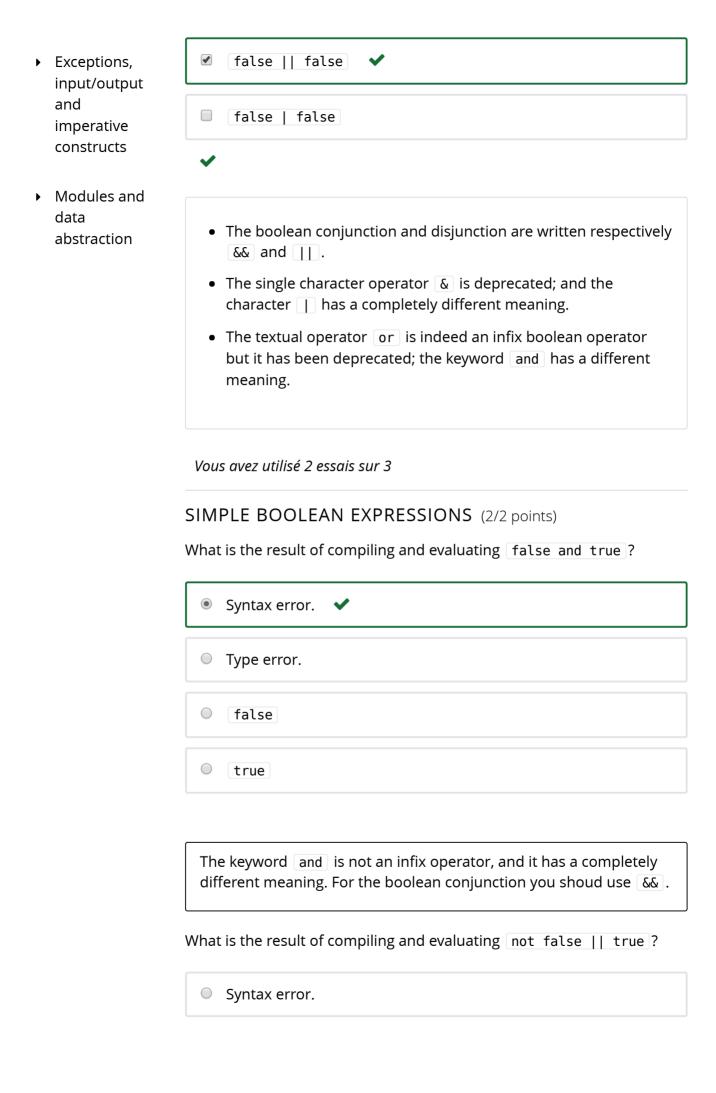
Select the valid expressions that evaluate to false.

! true
!! false
✓ not true
not not false
<pre>✓ not (not false)</pre>
✓

- The boolean negation is the function not . The operator ! exists but has a different meaning.
- The expression not not false, whithout parenthesis, is read as the application of two arguments to the function not. If it were accepted by the typechecker, this would be compiled to a call to the function not passing it two arguments, namely not and false.

Select the syntactically valid expressions that do not use deprecated operators.

□ true and false
☑ true && false ✓
□ true & false
<pre>false or false</pre>



Type error.
• false
• true 🗸
Function applications have a greater priority than arithmetic operators; this is read as (not false) true.
Vous avez utilisé 1 essais sur 3
SIMPLE COMPARISON EXPRESSIONS (3/3 points)
What is the result of compiling and evaluating $1 < 2 \&\& 2 <> 3$?
Syntax error.
Type error.
false
• true 🗸
The inequality operator is written <> . The operator != exists but it has a different meaning.
What is the result of compiling and evaluating $1 = true$?
Syntax error.
● Type error. ✔
• false

O true

While the comparison operators are polymorphic, you cannot compare two values of different types. Hence, the expressions true = 1 is rejected by the typechecker.

What is the result of compiling and evaluating 1 < 2 < 3?

Syntax error.

■ Type error.

false

true

- The comparison operators are left associative. It means that this expression is syntactically valid, and is read as:

 (1 < 2) < 3
 This is not a ternary comparison, which OCaml does not have. Although this pattern can make sense in some cases, it is here the result of a (common) beginner error.
- Fortunately, the typechecker rejects this expression, because the polymorphic comparaison cannot compare two values of different types, namely 1 < 2 fo type bool and 3 of type int.

Vous avez utilisé 1 essais sur 3

SIMPLE COMPARISON EXPRESSIONS (BIS) (6/6 points)

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

What is the result of compiling and evaluating true = 1 & not (3 = 4)?

O Syntax error.
● Type error. ✔
false
true
You can't compare booleans and integers.
What is the result of compiling and evaluating false \iff 0 && 3 \iff 2?
O Syntax error.
● Type error. ✔
O false
• true
You can't compare booleans and integers.
What is the result of compiling and evaluating true <> false && 3 <> 4 ?
O Syntax error.
O Type error.
O false
• true 🗸

What is the result of compiling and evaluating

This is read as ((not true) >= false) || (3 = 4).

Vous avez utilisé 1 essais sur 1

A propos

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Mentions légales











Rechercher un cours



