FUNCTION APPLICATIONS (4/4 points)

What is the type of the expression `String.get "Hello" 3` ?

○ Type error.

○ `int`

○ `bool`

○ `float`

○ `string`

◉ `char` ✔

This is the application of the function `String.get` to the two arguments `"Hello"` and `3` .

What is the type of the expression `String.get "Hello" (1 + 2)` ?

○ Type error.

○ `int`

○ `bool`

○ `float`

○ `string`

◉ `char` ✔

This is the application of the function `String.get` to the two arguments `"Hello"` and `(1 + 3)` .

What is the type of the expression `String.get "Hello" 1 + 2` ?

◉ Type error. ✔

○ `int`

○ `bool`

○ `float`

○ `string`

○ `char`

- This is read as: `(String.get "Hello" 1) + 2`
- The left argument of integer addition would be a character.

What is the type of the expression `Char.code 'a' + 2` ?

○ Type error.

● `int` ✔

○ `bool`

○ `float`

○ `string`

○ `char`

- This is read as: `(Char.code 'a') + 2` .
- The `Char.code` function returns an integer value that is the ASCII code af the argument.

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FUNCTION APPLICATIONS (BIS) (4/4 points)

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

What is the type of the expression `1 + Char.code String.get "Hello" 3` ?

○ Type error. ✔

○ `int`

○ `bool`

○ `float`

○ `string`

○ `char`

- The `Char.code` function does not expect three arguments.
- The expression `1 + Char.code (String.get "Hello" 3)` would have been a valid integer expression.

What is the type of the expression `Char.code (String.get "Hello" 3) + 2` ?

○ Type error.

● `int` ✔

○ `bool`

○ `float`

○ `string`

○ `char`

Business as usual.

What is the type of the expression `String.get "Hello" int_of_string "2"` ?

● Type error. ✔

○ `int`

○ `bool`

○ `float`

○ `string`

○ `char`

- The `String.get` function does not expect three arguments.

- The expression `String.get "Hello" (int_of_string "2")` would have been a valid character expression.

What is the type of the expression
`String.get ("OCaml" ^ " is " ^ "wonderful!") (String.length ("I love " ^ "Pascal`
?

○ Type error.

○ `int`

○ `bool`

○ `float`

○ `string`

◉ `char` ✔

The `String.length` function returns the length of its string argument, as an integer value.

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NESTED EXPRESSIONS (3/3 points)

What is the type of the expression
`"An approximation of pi is: " ^ string_of_int (int_of_float 3.14) ^ ".14"` ?

○ Type error.

○ `int`

- ○ `bool`

- ○ `float`

- ● `string` ✔

- ○ `char`

- This is read as:
  `"An approximation of pi is: " ^ (string_of_int (int_of_float 3.14)) ^ ".14`
  .

- The sub-expression `string_of_int (int_of_float 3.14)` is a valid string expression.

What is the type of the expression `1 + int_of_string "23" + 45` ?

- ○ Type error.

- ● `int` ✔

- ○ `bool`

- ○ `float`

- ○ `string`

- ○ `char`

- This is read as: `1 + (int_of_string "23") + 45` .

- The sub-expression `int_of_string "23"` is a valid integer expression.

What is the type of the expression `int_of_string "12" ^ "34"` ?

- ● Type error. ✔

- ○ `int`

- ○ `bool`

- float
- string
- char

> - This is read as: `(int_of_string "12") ^ "34"`.
> - The left operand of the concatenation operator is an integer expression.

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NESTED EXPRESSIONS (BIS) (3/3 points)

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

What is the type of the expression `not (if true then 2 = 3 else 'a' <> 'c')` ?

- ○ Type error.
- ○ `int`
- ● `bool` ✔
- ○ `float`
- ○ `string`
- ○ `char`

> Both branches contains valid boolean expressions.

What is the type of the expression
`if not not false then float_of_int 2 else sqrt (sqrt 16.)` ?

- ● Type error. ✔
- ○ `int`
- ○ `bool`

Beware! The double negation should be written `not (not false)` .

What is the type of the expression
`if 'a' = String.get "abcd" (if 0. = 1. then 2 else 3) then Char.code 'A' else 6`
?

○ Type error.

◉ `int` ✔

○ `bool`

○ `float`

○ `string`

○ `char`

- The sub-expression `if 0. = 1. then 2 else 3` is a valid integer expression.

- Then, the sub-expresion `String.get "abcd" (if 0. = 1. then 2 else 3)` is a valid character expression.

- Both branch of the outer conditional contain valid integer expressions.

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NESTED EXPRESSIONS (TER) (3/3 points)

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

What is the type of the expression
`1 + (if "int" <> "float" then 2. else 3.) +. 4. ` ?

◉ Type error. ✔

○ `int`

○ `bool`

○ `float`

○ `string`

○ `char`

One can not mix integer and floating-point number additions without in-advance proper notification to the authority!

What is the type of the expression
`if "string" <> "char" then String.get "A" 0 else "A"` ?

⦿ Type error. ✔

○ `int`

○ `bool`

○ `float`

○ `string`

○ `char`

One should not mix characters and strings in an potion, otherwise you will be cursed to eternal indecision!

What is the type of the expression
`String.get "King's Cross Station" (if 0 <> 1 then 8.25 else 9.75)` ?

○ `int`

○ `bool`

○ `float`

○ `string`

○ `char`

There is no character between the eighth one and the ninth one!

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○ `string`

○ `char`

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