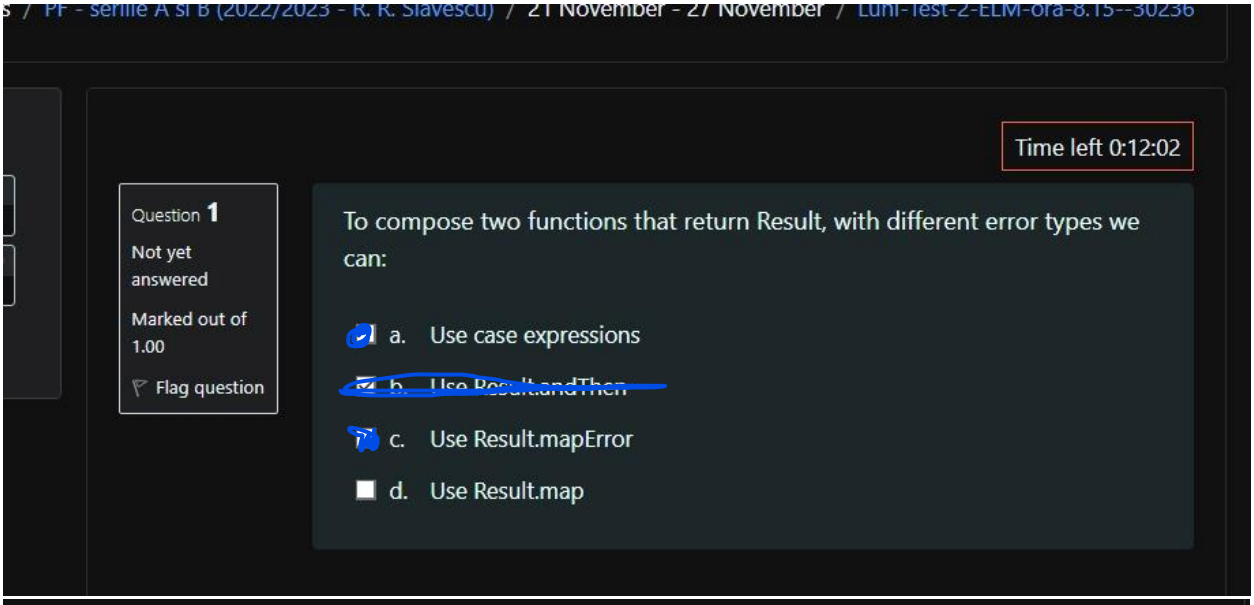
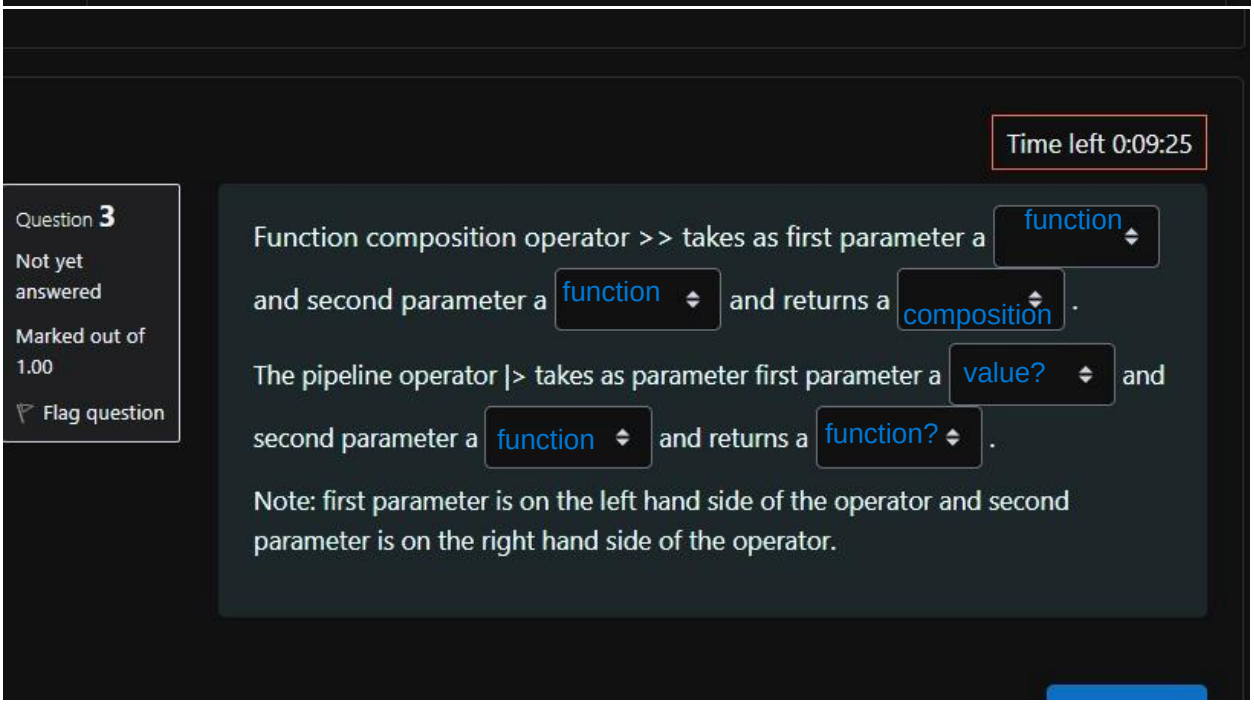

PF - serille A si B (2022/2023 - R. R. Slavescu) / 21 November - 27 November / Luni-Test-2-ELM-ora-8.15--30236
Time left 0:12:02
Question 1
Not yet answered
Marked out of 1.00
Flag question
To compose two functions that return Result, with different error types we can:
a. Use case expressions
b. Use Result.andThen
c. Use Result.mapError
d. Use Result.map


Time left 0:09:25
Question 3
Not yet answered
Marked out of 1.00
Flag question
Function composition operator >> takes as first parameter a function and second parameter a function and returns a composition .
The pipeline operator |> takes as parameter first parameter a value? and second parameter a function and returns a function? .
Note: first parameter is on the left hand side of the operator and second parameter is on the right hand side of the operator.

Time left 0:08:21

Question 4

Not yet answered

Marked out of 1.00

Flag question

To transform the value that is inside the Ok variant of Result, we can:

- [ ] a. Use the Result.transform function
- [x] b. Use a case expression
- [ ] c. Use the Result.withDefault function
- [x] d. Use the Result.map function

The result of the following expression is:

```
type alias Point = {a: Int, b: Int}

points = [{a = 1, b = 3}, {a = 2, b = 4}, {a = 3, b = 3}]

da : List Point -> List Point
da ps = ps |> List.map (\p -> { p | a = p.a + p.b })

db : List Point -> List Point
db ps = ps |> List.map (\p -> { p | b = p.b + p.a })

points |> db |> da |> List.map .b |> List.foldl (+) 0
```

Answer: 16

Question **6**

Not yet answered

Marked out of 1.00

Flag question

Given the following definitions:

```
type CalculationError = FirstNaN | SecondNaN

divNums : Float -> Float -> Result CalculationError Float
divNums a b =
  if isNaN a then
    Err FirstNaN
  else if isNaN b then
    Err SecondNaN
  else
    Ok (a / b)
```

If we want to write a function that calls divNums and returns Result String Float, we have the following options:

- a. Use Result.map
- b. Use Result.mapError
- c. Use Result.withDefault
- d. Use a case expression to transform the error

Time left 0:03:54

Question **8**

Not yet answered

Marked out of 1.00

Flag question

Given the following definitions:

```
inc x = x + 1
dec x = x - 1
double x = x * 2
twice f x = f (f x)
```

What does the expression below evaluate to?

```
(twice (dec >> double >> inc)) 3
```

Answer: 9

Time left 0:06:59

Question **5**

Not yet answered

Marked out of 1.00

Flag question

Given the following function definition:

```
f x a b = x |> a |> b |> b
```

The result of the following expression is:

```
f 3 (\x -> x + 5) (\x -> x * 2)
```

Answer: 32

Next page

Question **10**

Not yet answered

Marked out of 1.00

Flag question

Given the following function definition:

```
f a b x = x |> b |> a
```

The result of the following expression is:

```
f (\x -> x + 2) (\x -> x * 3) 2
```

Answer: ~~12~~ 8

Question **10**

Not yet answered

Marked out of 1.00

Flag question

Given the following function definition:

```
f a b x = x |> b |> a
```

The result of the following expression is:

```
f (\x -> x + 2) (\x -> x * 3) 2
```

Answer: ~~12~~ 8

Given the following definitions:

```
xs = [2, 1, 3]
```

Select the expression(s) which will produce the following result:

```
[1, 2, 3]
```

- [x] a. List.sort xs
- [ ] b. xs |> List.sort |> List.reverse
- [x] c. List.reverse xs |> List.sort
- [x] d. List.sort <| List.reverse <| xs

Given the following function definition:

```
f x a b = a <| b <| x
```

The result of the following expression is:

```
f 2 (\x -> x * 2) (\x -> x + 3)
```

Answer: 10

The result of the following expression is:

```
type alias Point = {a: Int, b: Int}

points = [{a = 1, b = 3}, {a = 2, b = 4}, {a = 3, b = 3}]

da : List Point -> List Point
da ps = ps |> List.map (\p -> { p | a = p.a + p.b })

db : List Point -> List Point
db ps = ps |> List.map (\p -> { p | b = p.b + p.a })

points |> db |> da |> List.map .b |> List.foldl (+) 0
```

Answer: 16 ✓

In the context of functions used for testing HTML, select the functions that belong to the Html.Test.Selectors module

- [x] a. tag
- [x] b. text
- [ ] c. class
- [ ] d. equal
- [ ] e. has

In the context of Elm web apps, the Msg type represents:

- a. All possible actions that can cause the app to change its state
- b. The messages a users send in chat apps
- c. The state of the app
- d. The difference between two states of the app

Clear my choice

Programare Functionala seriile A si B (Sem. I, 2022/2023)

Quiz navigation

1 2 3 4 5 6
7 8 9 10

Finish attempt ...

Time left 0:12:11

Question **2**

Not yet answered

Marked out of 1.00

Flag question

Given the following definitions:

```
type DivError = DivByZero

divNums : Int -> Int -> Result DivError Int
divNums a b =
  if a == 0 then
    Err DivByZero
  else
    Ok (b // a)
```

The type of the following expressions is:

divNums 2 10 |> Result.mapError (_ -> "Division by zero!")	Choose... int
divNums 2 10 |> Result.andThen (divNums 2)	Choose... ???
divNums 2 10	Choose... int

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Programare Functionala seriile A si B (Sem. I, 2022/2023)

Quiz navigation

1 2 3 4 5 6
7 8 9 10

Finish attempt ...

Time left 0:07:17

Question 7

Not yet answered

Marked out of 1.00

Flag question

The function countVowels can be rewritten using pipelines as:

countVowels s = List.length (List.filter isVowel (List.map Char.toLower s))

- [x] a. countVowels s = s |> List.map Char.toLower |> List.filter isVowel |> List.length ✓
- [ ] b. countVowels s = List.map Char.toLower <| List.filter isVowel <| List.length <| s
- [x] c. countVowels s = List.length <| List.filter isVowel <| List.map Char.toLower <| s ✓
- [ ] d. countVowels s = s |> List.length |> List.filter isVowel |> List.map Char.toLower

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◄ TEST-2 ELM--din-Lab 5,6,7

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L09-Synopsis ►

Programare Functionala seriile A si B (Sem. I, 2022/2023)

Quiz navigation

1 2 3 4 5 6
7 8 9 10

Finish attempt ...

Time left 0:12:20

Question **1**

Not yet answered

Marked out of 1.00

Flag question

Select all the true statements about the Elm runtime:

- [x] a. Compiles Elm code to HTML files
- [x] b. Handles communication with servers
- [x] c. Handles communication with the browser
- [ ] d. Is an optional component that makes it easier to debug Elm apps

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◄ TEST-2 ELM--din-Lab 5,6,7

Jump to...

L09-Synopsis ►

Programare Functionala seriile A si B (Sem. I, 2022/2023)

Quiz navigation

1 2 3 4 5 6
7 8 9 10

Finish attempt ...

Time left 0:06:21

Question **8**

Not yet answered

Marked out of 1.00

Flag question

Select all the **true** statements:

- [x] a. Record accessors can be composed with function composition
- [ ] b. Records use nominal typing
- [x] c. Elm has "built-in" definitions for all possible record accessors
- [ ] d. The type of the accessor .a is {a : b} -> b

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◄ TEST-2 ELM--din-Lab 5,6,7

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L09-Synopsis ►

Programare Functionala seriile A si B (Sem. I, 2022/2023)

Quiz navigation

1 2 3 4 5 6
7 8 9 10

Finish attempt ...

Time left 0:06:21

Question **8**

Not yet answered

Marked out of 1.00

Flag question

Select all the **true** statements:

- [x] a. Record accessors can be composed with function composition
- [ ] b. Records use nominal typing
- [x] c. Elm has "built-in" definitions for all possible record accessors
- [ ] d. The type of the accessor .a is {a : b} -> b

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◄ TEST-2 ELM--din-Lab 5,6,7

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L09-Synopsis ►