Started on	Tuesday, 2 May 2023, 12:22 PM
State	Finished
Completed on	Tuesday, 2 May 2023, 12:32 PM
Time taken	9 mins 59 secs
Marks	2.00/4.00
Grade	**5.00** out of 10.00 (**50**%)

Question **1**

Incorrect

Mark 0.00 out of 1.00

Pentru definiția:

```
data D = DC1 Int | DC2 Int Int
```

, care expresie va genera o eroare?

Select one:

a. `x = DC2 2`

b. `x = DC1 (4 / 2)`

c. `x = DC1 2`

d. `x = DC2 2 (2 + 1)`

Răspunsul dumneavoastră este incorect.

The correct answer is: `x = DC1 (4 / 2)`

Question **2**

Correct

Mark 1.00 out of 1.00

Se consideră tipul de date

```
data Tree a = Nil | MakeTree (Tree a) a (Tree a)
```

.
Dorim să implementăm funcționala

```
mapT
```

care, primind o funcție unară

```
f
```

și un arbore

```
t
```

, aplică pe

```
f
```

asupra tuturor valorilor din nodurile lui

```
t
```

. O implementare corectă a lui

```
mapT
```

este:

Select one:

a.

```
mapT _ Nil = Nil
mapT f (MakeTree left root right) =
    let
        new_left = mapT f left
        new_right = mapT f right
    in
        MakeTree new_left root new_right
```

b. ✔

```
mapT _ Nil = Nil
mapT f (MakeTree left root right) = MakeTree (mapT f left) (f
↪  root) (mapT f right)
```

c.

```
mapT _ Nil = Nil
mapT f (MakeTree left root right) = mapT $ MakeTree left (f
↪  root) right
```

d.

```
mapT _ Nil = Nil
mapT f (MakeTree left root right) = MakeTree left (f root) right
```

Răspunsul dumneavoastră este corect.

The correct answer is:

```
mapT _ Nil = Nil
mapT f (MakeTree left root right) = MakeTree (mapT f left) (f
↪  root) (mapT f right)
```

Question **3**

Incorrect

Mark 0.00 out of 1.00

Care este tipul expresiei

```
[head, tail]
```

?

Select one:

a. `[a] -> [a]`

b. eroare de tip

c. `[[a] -> a]`

d. `[[a] -> [a]]`

Răspunsul dumneavoastră este incorect.

The correct answer is: eroare de tip

Question **4**

Correct

Mark 1.00 out of 1.00

Cum s-ar exprima lista [1, 2] ca valoare a tipului dat prin:

```
data L a = Cons (Maybe (a, L a))
```

?

Select one:

a.
```
Cons (Just 1 (Cons (Just 2 (Cons
↪ Nothing))))
```

b.
```
Cons (1, Cons (2, Nothing))
```

c.
```
Cons (Just (1, Cons (Just (2, Cons
↪ Nothing))))
```

d.
```
Just (Cons (1, Just (Cons (2, Nothing))))
```

Răspunsul dumneavoastră este corect.

The correct answer is:
```
Cons (Just (1, Cons (Just (2, Cons
↪ Nothing))))
```

◄ Test - Laborator 7

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Test - Laborator 9 ►