

Haskell test 2 - Labs 11-12 (page 2 of 10) - Brave

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Functional Programming, Fall, 2023-2024

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Question 2

Answer saved

Marked out of 1.00

Flag question

Select all the **true** statements about the bottom value:

☐ a. In Haskell, Nothing is the bottom value

☒ b. The bottom value can be assigned to any type

☒ c. It crashes the program if it's evaluated at runtime

☐ d. In Haskell, None is the bottom value

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Question 4

Answer saved

Marked out of 1.00

Flag question

Select the function signature that **best** represents a parser

☐ a. String -> a

☐ b. [Int] -> Result Int a

☐ c. String -> Result ParseError a

☒ d. String -> Result ParseError (a, String)

Clear my choice

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Question 3

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In Haskell functions are called using which means that the given the following function:

```
unless condition whenFalse whenTrue
| not condition = whenFalse
| otherwise = whenTrue
```

The expression `unless (1 > 0) (error "impossible") "ok"` will

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Question 7

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Flag question

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Complete the parser below such that it parses a C/C++ array indexing expression (i.e. [1][2]):

Note: there must be at least one indexing expression.

cArrayIndex = \$ (char '[') (char ']'')

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Question 5

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Flag question

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Which of the following names would best describe the following parser:

satisfies (==c)

☐ a. lower

☒ b. char

☐ c. upper

☐ d. digit

Clear my choice

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Question 8

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Flag question

Given the following parser:
 $p = \text{number} \text{ `andThen` } \text{some } (\text{pThen } (\text{char } ',') \text{ number})$
Select the inputs that will successfully parse (i.e. will yield Success _).
Note: the parser doesn't have to consume all of the input in order to yield the Success variant!
Hint: Try to express in words (natural language) what the parser does before considering the inputs below.

☒ a. 11,12,1abc

☐ b. 11abc

☒ c. 1,2,3

☐ d. 1

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Question 10

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Given the following function:
 $f \ g \ v \ [] = []$
 $f \ g \ v \ (x:xs) = v:f \ g \ (g \ v \ x) \ xs$
Select the result of each expression:
 $\text{take } 3 \ \$ \ f \ (+) \ 1 \ [1..]$

[1,2,3]

1,2,4

 $\text{take } 4 \ \$ \ f \ (+) \ 0 \ [2,4..]$

[0,2,4,6]

0,2,6,12

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Question 9

Answer saved

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Flag question

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Given the following combinator:

```
rep :: Int -> Parser a -> Parser [a]
rep 0 p = succeed []
rep n p = pMap (\(a, as) -> a:as) $ andThen p (rep (n-1) p)
```

That applies a given parser a fixed number of times and returns the results in a list.

Select the parser definition that would yield:

Success ("ab", "3")

for the following input:

ab123

i.e. runParser p input == result

Hint: Try to find a pattern in the input and connect that with the output before considering the parser definitions below!

- ☐ a. `p = pMap fst $ andThen (rep 2 lower) (rep 2 digit)`
- ☒ b. `p = pMap (\(a, b) -> a ++ b) $ andThen (rep 2 lower) (rep 2 digit)`
- ☐ c. `p = pThen (rep 2 lower) (rep 2 digit)`
- ☐ d. `p = pThen (pThen lower lower) (pThen digit digit)`

[Clear my choice](#)

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Which of the following names would best describe the following parser:

`satisfies (`elem` ['a'..'z'])`

- ☐ a. digit
- ☒ b. char
- ☐ c. lower
- ☐ d. upper

[Clear my choice](#)