



Help

Notice: the code samples and (possible) answers on this page are written using Haskell syntax. If you did the lab in one of the other languages, you have to manually translate the given code samples and (possible) answers to the language you have used to solve the programming exercises. Unfortunately, the edX tools do not allow us to have separate question sheets for every language. We hope to improve this experience in the future but for now this is what we have to live with.

QUESTION 0 (1 point possible)

What is the result of `toDigits 12321` ?

- ☐ [0, 1, 2, 3, 2, 1]
- ☐ [1, 2, 3, 2, 1, 0]
- ☐ [1, 2, 3, 2, 1]
- ☐ The computation will not compile, will not terminate, or will throw an Exception

Final Check

Save

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QUESTION 1 (1 point possible)

What is the result of `toDigits (-531)` ?

- ☐ []
- ☐ [-5, 3, 1]
- ☐ [-5, -3, -1]
- ☐ The computation will not compile, will not terminate, or will throw an Exception

Final Check

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QUESTION 2 (1 point possible)

What is the result of `toDigits 7.6` ?

- ☐ The computation will not compile, will not terminate, or will throw an Exception
- ☐ [7, 6]
- ☐ [7]
- ☐ []

Final Check

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QUESTION 3 (1 point possible)

What is the result of `toDigits 0` ?

- ☐ []
- ☐ [0]
- ☐ The computation will not compile, will not terminate, or will throw an Exception
- ☐ "0"

Final Check

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QUESTION 4 (1 point possible)

What is the result of `toDigits "123"`?

- ☐ []
- ☐ [1, 2, 3]
- ☐ ['1', '2', '3']
- ☐ The computation will not compile, will not terminate, or will throw an Exception

Final Check

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QUESTION 5 (1 point possible)

What is the result of `toDigits 666` ?

- ☐ [6, 6, 6]
- ☐ [6, 6]
- ☐ [6]
- ☐ The computation will not compile, will not terminate, or will throw an Exception

Final Check

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QUESTION 6 (1 point possible)

What is the result of `toDigitsRev 12321` ?

Final Check

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QUESTION 7 (1 point possible)

What is the result of `toDigitsRev (-531)` ?

- ☐ [1, 2, 3, 2, 1]
 - ☐ [0, 1, 2, 3, 2, 1]
 - ☐ [1, 2, 3, 2, 1, 0]
 - ☐ The computation will not compile, will not terminate, or will throw an Exception
- ☐ The computation will not compile, will not terminate, or will throw an Exception
 - ☐ []
 - ☐ [1, 3, -5]
 - ☐ [-1, -3, -5]

Final Check

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QUESTION 8 (1 point possible)

What is the result of `toDigitsRev 7.6` ?

- ☐ [6, 7]
- ☐ [6]
- ☐ []
- ☐ The computation will not compile, will not terminate, or will throw an Exception

Final Check

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QUESTION 9 (1 point possible)

What is the result of `toDigitsRev 0` ?

- ☐ []
- ☐ The computation will not compile, will not terminate, or will throw an Exception
- ☐ [0]
- ☐ ['0']

Final Check

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QUESTION 10 (1 point possible)

What is the result of `toDigitsRev "123"`

- ☐ The computation will not compile, will not terminate, or will throw an Exception
- ☐ [3, 2, 1]
- ☐ ['3', '2', '1']
- ☐ []

Final Check

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QUESTION 11 (1 point possible)

What is the result of `toDigitsRev 666` ?

- ☐ [6]
- ☐ [6, 6]
- ☐ [6, 6, 6]
- ☐ The computation will not compile, will not terminate, or will throw an Exception

Final Check

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QUESTION 12 (1 point possible)

What is the result of `doubleSecond []` ?

- ☐ The computation will not compile, will not terminate, or will throw an Exception
- ☐ ""
- ☐ []
- ☐ 0

Final Check

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QUESTION 13 (1 point possible)

What is the result of `doubleSecond [5]` ?

- ☐ [5]
- ☐ [10]
- ☐ [1, 0]
- ☐ 5

Final Check

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QUESTION 14 (1 point possible)

What is the result of `doubleSecond [2, 5]` ?

- ☐ [4, 5]
- ☐ [2, 10]
- ☐ [4, 10]
- ☐ [2, 1, 0]

Final Check

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QUESTION 15 (1 point possible)

What is the result of `doubleSecond [1..]` ?

- ☐ [2, 2, 6, 4, ...]
- ☐ [2, 4, 6, 8, ...]
- ☐ [1, 2, 3, 4, ...]
- ☐ [1, 4, 3, 8, ...]

Final Check

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QUESTION 16 (1 point possible)

What is the result of `doubleSecond [1, 0, 1, 0, 1]` ?

- ☐ [1, 0, 1, 0, 1]
- ☐ [2, 0, 2, 0, 2]
- ☐ [2, 1, 2, 1, 2]
- ☐ The computation will not compile, will not terminate, or will throw an Exception

Final Check

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QUESTION 17 (1 point possible)

For this question, fill in the correct result. If the computation will not compile, will not terminate, or will throw an Exception, type in: BOTTOM

What is the result of `sumDigits []`

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QUESTION 18 (1 point possible)

For this question, fill in the correct result. If the computation will not compile, will not terminate, or will throw an Exception, type in: BOTTOM

What is the result of sumDigits [-12, 12]

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QUESTION 19 (1 point possible)

For this question, fill in the correct result. If the computation will not compile, will not terminate, or will throw an Exception, type in: BOTTOM

What is the result of sumDigits [0, 0, 0]

Final Check

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QUESTION 20 (1 point possible)

For this question, fill in the correct result. If the computation will not compile, will not terminate, or will throw an Exception, type in: BOTTOM

What is the result of sumDigits [6, 66, 666]

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QUESTION 21 (1 point possible)

For this question, fill in the correct result. If the computation will not compile, will not terminate, or will throw an Exception, type in: BOTTOM

What is the result of sumDigits [1, 3 ..]

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QUESTION 22 (1 point possible)

What is the result of `isValid (-12786592316)` ?

- ☐ True
- ☐ False
- ☐ The computation will not compile, will not terminate, or will throw an Exception
- ☐ Nothing

Final Check

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QUESTION 23 (1 point possible)

What is the result of `isValid 231753.65121` ?

- ☐ True
- ☐ False
- ☐ The computation will not compile, will not terminate, or will throw an Exception
- ☐ Nothing

Final Check

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QUESTION 24 (1 point possible)

What is the result of `isValid 5256283618614517` ?

- ☐ True
- ☐ False
- ☐ The computation will not compile, will not terminate, or will throw an Exception
- ☐ Nothing

Final Check

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QUESTION 25 (1 point possible)

What is the result of `isValid 4556945538735694` ?

- ☐ True
- ☐ False
- ☐ The computation will not compile, will not terminate, or will throw an Exception
- ☐ Nothing

Final Check

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QUESTION 26 (1 point possible)

What is the result of `isValid 0000000000000000` ?

- ☐ True
- ☐ False
- ☐ The computation will not compile, will not terminate, or will throw an Exception
- ☐ Nothing

Final Check

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QUESTION 27 (1 point possible)

The template for this lab provides the function `numValid`, together with a list of credit card numbers `creditcards`.What is the result of: `numValid creditcards` ?

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BONUS EXERCISE

Which of the provided languages did you use to solve this lab?

Note that this question is not graded.

- ☐ Haskell
- ☐ Frege
- ☐ F#
- ☐ Groovy
- ☐ Java
- ☐ Scala

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