Example evaluations of `acronymR` and `acronymL`

Contents

Acronym

The **acronym** of a list of words is the first letter of each word

```haskell
1   -- acronym computer from the right
2   acronymR :: [String] -> String
3   acronymR list = case list of
4     []   -> ""
5     x:xs -> (head x) : (acronymR xs)
6
7   -- acronym with an accumulator
8   acronymL :: [String] -> String
9   acronymL = acronymAcc ""
10
11  acronymAcc :: String -> [String] -> String
12  acronymAcc   soFar      list = case list of
13    []   -> soFar
14    x:xs -> acronymAcc (soFar ++ [head x]) xs
```

Acronym evaluation from the Right

Example of evaluation of `acronymR`

```
acronymR ["This", "is", "an", "example"]
```

Example of evaluation of `acronymR`

```
acronymR ["This", "is", "an", "example"]
= 'T' : (acronymR ["is", "an", "example"])
```

Acronym evaluation from the Right

Example of evaluation of `acronymR`

```
acronymR ["This", "is", "an", "example"]
= 'T' : (acronymR ["is", "an", "example"])
```

Acronym evaluation from the Right

Example of evaluation of `acronymR`

```
acronymR ["This", "is", "an", "example"]
= 'T' : (acronymR ["is", "an", "example"])
= 'T' : 'i' : (acronymR ["an", "example"])
```

Acronym evaluation from the Right

Example of evaluation of `acronymR`

```
acronymR ["This", "is", "an", "example"]
= 'T' : (acronymR ["is", "an", "example"])
= 'T' : 'i' : (acronymR ["an", "example"])
```

Acronym evaluation from the Right

Example of evaluation of `acronymR`

```
acronymR ["This", "is", "an", "example"]
= 'T' : (acronymR ["is", "an", "example"])
= 'T' : 'i' : (acronymR ["an", "example"])
= 'T' : 'i' : 'a' : (acronymR ["example"])
```

Acronym evaluation from the Right

Example of evaluation of `acronymR`

```
acronymR ["This", "is", "an", "example"]
= 'T' : (acronymR ["is", "an", "example"])
= 'T' : 'i' : (acronymR ["an", "example"])
= 'T' : 'i' : 'a' : (acronymR ["example"])
```

Acronym evaluation from the Right

Example of evaluation of `acronymR`

```
acronymR ["This", "is", "an", "example"]
= 'T' : (acronymR ["is", "an", "example"])
= 'T' : 'i' : (acronymR ["an", "example"])
= 'T' : 'i' : 'a' : (acronymR ["example"])
= 'T' : 'i' : 'a' : 'e' : (acronymR [])
```

Acronym evaluation from the Right

Example of evaluation of `acronymR`

```
acronymR ["This", "is", "an", "example"]
= 'T' : (acronymR ["is", "an", "example"])
= 'T' : 'i' : (acronymR ["an", "example"])
= 'T' : 'i' : 'a' : (acronymR ["example"])
= 'T' : 'i' : 'a' : 'e' : (acronymR [])
```

Acronym evaluation from the Right

Example of evaluation of `acronymR`

```
acronymR ["This", "is", "an", "example"]
= 'T' : (acronymR ["is", "an", "example"])
= 'T' : 'i' : (acronymR ["an", "example"])
= 'T' : 'i' : 'a' : (acronymR ["example"])
= 'T' : 'i' : 'a' : 'e' : (acronymR [])
= 'T' : 'i' : 'a' : 'e' : ""
```

Acronym evaluation from the Right

Example of evaluation of `acronymR`

```
acronymR ["This", "is", "an", "example"]
= 'T' : (acronymR ["is", "an", "example"])
= 'T' : 'i' : (acronymR ["an", "example"])
= 'T' : 'i' : 'a' : (acronymR ["example"])
= 'T' : 'i' : 'a' : 'e' : (acronymR [])
= 'T' : 'i' : 'a' : 'e' : ""
```

Acronym evaluation from the Right

Example of evaluation of `acronymR`

```
acronymR ["This", "is", "an", "example"]
= 'T' : (acronymR ["is", "an", "example"])
= 'T' : 'i' : (acronymR ["an", "example"])
= 'T' : 'i' : 'a' : (acronymR ["example"])
= 'T' : 'i' : 'a' : 'e' : (acronymR [])
= 'T' : 'i' : 'a' : 'e' : ""
= 'T' : 'i' : 'a' : "e"
```

Acronym evaluation from the Right

Example of evaluation of `acronymR`

```
acronymR ["This", "is", "an", "example"]
= 'T' : (acronymR ["is", "an", "example"])
= 'T' : 'i' : (acronymR ["an", "example"])
= 'T' : 'i' : 'a' : (acronymR ["example"])
= 'T' : 'i' : 'a' : 'e' : (acronymR [])
= 'T' : 'i' : 'a' : 'e' : ""
= 'T' : 'i' : 'a' : "e"
```

Example of evaluation of `acronymR`

```
acronymR ["This", "is", "an", "example"]
= 'T' : (acronymR ["is", "an", "example"])
= 'T' : 'i' : (acronymR ["an", "example"])
= 'T' : 'i' : 'a' : (acronymR ["example"])
= 'T' : 'i' : 'a' : 'e' : (acronymR [])
= 'T' : 'i' : 'a' : 'e' : ""
= 'T' : 'i' : 'a' : "e"
= 'T' : 'i' : "ae"
```

Acronym evaluation from the Right

Example of evaluation of `acronymR`

```
acronymR ["This", "is", "an", "example"]
= 'T' : (acronymR ["is", "an", "example"])
= 'T' : 'i' : (acronymR ["an", "example"])
= 'T' : 'i' : 'a' : (acronymR ["example"])
= 'T' : 'i' : 'a' : 'e' : (acronymR [])
= 'T' : 'i' : 'a' : 'e' : ""
= 'T' : 'i' : 'a' : "e"
= 'T' : 'i' : "ae"
```

Acronym evaluation from the Right

Example of evaluation of `acronymR`

```
acronymR ["This", "is", "an", "example"]
= 'T' : (acronymR ["is", "an", "example"])
= 'T' : 'i' : (acronymR ["an", "example"])
= 'T' : 'i' : 'a' : (acronymR ["example"])
= 'T' : 'i' : 'a' : 'e' : (acronymR [])
= 'T' : 'i' : 'a' : 'e' : ""
= 'T' : 'i' : 'a' : "e"
= 'T' : 'i' : "ae"
= 'T' : "iae"
```

Acronym evaluation from the Right

Example of evaluation of `acronymR`

```
acronymR ["This", "is", "an", "example"]
= 'T' : (acronymR ["is", "an", "example"])
= 'T' : 'i' : (acronymR ["an", "example"])
= 'T' : 'i' : 'a' : (acronymR ["example"])
= 'T' : 'i' : 'a' : 'e' : (acronymR [])
= 'T' : 'i' : 'a' : 'e' : ""
= 'T' : 'i' : 'a' : "e"
= 'T' : 'i' : "ae"
= 'T' : "iae"
```

Acronym evaluation from the Right

Example of evaluation of `acronymR`

```
acronymR ["This", "is", "an", "example"]
= 'T' : (acronymR ["is", "an", "example"])
= 'T' : 'i' : (acronymR ["an", "example"])
= 'T' : 'i' : 'a' : (acronymR ["example"])
= 'T' : 'i' : 'a' : 'e' : (acronymR [])
= 'T' : 'i' : 'a' : 'e' : ""
= 'T' : 'i' : 'a' : "e"
= 'T' : 'i' : "ae"
= 'T' : "iae"
= "Tiae"
```

Acronym evaluation from the Left

Example of evaluation of `acronymL`

```
acronymL ["This", "is", "an", "example"]
= acronymAcc "" ["This", "is", "an", "example"]
```

Acronym evaluation from the Left

Example of evaluation of `acronymL`

```
acronymL ["This", "is", "an", "example"]
= acronymAcc "" ["This", "is", "an", "example"]
= acronymAcc ("" ++ ['T']) ["is", "an", "example"]
```

Acronym evaluation from the Left

Example of evaluation of `acronymL`

```
acronymL ["This", "is", "an", "example"]
= acronymAcc "" ["This", "is", "an", "example"]
= acronymAcc ("" ++ ['T']) ["is", "an", "example"]
= acronymAcc (("" ++ ['T']) ++ ['i']) ["an", "example"]
```

Acronym evaluation from the Left

Example of evaluation of `acronymL`

```
acronymL ["This", "is", "an", "example"]
= acronymAcc "" ["This", "is", "an", "example"]
= acronymAcc ("" ++ ['T']) ["is", "an", "example"]
= acronymAcc (("" ++ ['T']) ++ ['i']) ["an", "example"]
= acronymAcc ((("" ++ ['T']) ++ ['i']) ++ ['a']) ["example"]
```

Example of evaluation of `acronymL`

```
acronymL ["This", "is", "an", "example"]
= acronymAcc "" ["This", "is", "an", "example"]
= acronymAcc ("" ++ ['T']) ["is", "an", "example"]
= acronymAcc (("" ++ ['T']) ++ ['i']) ["an", "example"]
= acronymAcc ((("" ++ ['T']) ++ ['i']) ++ ['a']) ["example"]
= acronymAcc (((("" ++ ['T']) ++ ['i']) ++ ['a']) ++ ['e']) []
```

Acronym evaluation from the Left

Example of evaluation of `acronymL`

```
acronymL ["This", "is", "an", "example"]
= acronymAcc "" ["This", "is", "an", "example"]
= acronymAcc ("" ++ ['T']) ["is", "an", "example"]
= acronymAcc (("" ++ ['T']) ++ ['i']) ["an", "example"]
= acronymAcc ((("" ++ ['T']) ++ ['i']) ++ ['a']) ["example"]
= acronymAcc (((("" ++ ['T']) ++ ['i']) ++ ['a']) ++ ['e']) []
= ((("" ++ ['T']) ++ ['i']) ++ ['a']) ++ ['e']
```

Acronym evaluation from the Left

Example of evaluation of `acronymL`

```
acronymL ["This", "is", "an", "example"]
= acronymAcc "" ["This", "is", "an", "example"]
= acronymAcc ("" ++ ['T']) ["is", "an", "example"]
= acronymAcc (("" ++ ['T']) ++ ['i']) ["an", "example"]
= acronymAcc ((("" ++ ['T']) ++ ['i']) ++ ['a']) ["example"]
= acronymAcc (((("" ++ ['T']) ++ ['i']) ++ ['a']) ++ ['e']) []
= ((("" ++ ['T']) ++ ['i']) ++ ['a']) ++ ['e']
```

Acronym evaluation from the Left

Example of evaluation of `acronymL`

```
acronymL ["This", "is", "an", "example"]
= acronymAcc "" ["This", "is", "an", "example"]
= acronymAcc ("" ++ ['T']) ["is", "an", "example"]
= acronymAcc (("" ++ ['T']) ++ ['i']) ["an", "example"]
= acronymAcc ((("" ++ ['T']) ++ ['i']) ++ ['a']) ["example"]
= acronymAcc (((("" ++ ['T']) ++ ['i']) ++ ['a']) ++ ['e']) []
= (((("" ++ ['T']) ++ ['i']) ++ ['a']) ++ ['e']
= (("T" ++ ['i']) ++ ['a']) ++ ['e']
```

Acronym evaluation from the Left

Example of evaluation of `acronymL`

```
acronymL ["This", "is", "an", "example"]
= acronymAcc "" ["This", "is", "an", "example"]
= acronymAcc ("" ++ ['T']) ["is", "an", "example"]
= acronymAcc (("" ++ ['T']) ++ ['i']) ["an", "example"]
= acronymAcc ((("" ++ ['T']) ++ ['i']) ++ ['a']) ["example"]
= acronymAcc (((("" ++ ['T']) ++ ['i']) ++ ['a']) ++ ['e']) []
= (((("" ++ ['T']) ++ ['i']) ++ ['a']) ++ ['e']
= (("T" ++ ['i']) ++ ['a']) ++ ['e']
```

Acronym evaluation from the Left

Example of evaluation of `acronymL`

```
acronymL ["This", "is", "an", "example"]
= acronymAcc "" ["This", "is", "an", "example"]
= acronymAcc ("" ++ ['T']) ["is", "an", "example"]
= acronymAcc (("" ++ ['T']) ++ ['i']) ["an", "example"]
= acronymAcc ((("" ++ ['T']) ++ ['i']) ++ ['a']) ["example"]
= acronymAcc (((("" ++ ['T']) ++ ['i']) ++ ['a']) ++ ['e']) []
= (((("" ++ ['T']) ++ ['i']) ++ ['a']) ++ ['e']
= (("T" ++ ['i']) ++ ['a']) ++ ['e']
= ("Ti" ++ ['a']) ++ ['e']
```

Acronym evaluation from the Left

Example of evaluation of `acronymL`

```
acronymL ["This", "is", "an", "example"]
= acronymAcc "" ["This", "is", "an", "example"]
= acronymAcc ("" ++ ['T']) ["is", "an", "example"]
= acronymAcc (("" ++ ['T']) ++ ['i']) ["an", "example"]
= acronymAcc ((("" ++ ['T']) ++ ['i']) ++ ['a']) ["example"]
= acronymAcc (((("" ++ ['T']) ++ ['i']) ++ ['a']) ++ ['e']) []
= (((("" ++ ['T']) ++ ['i']) ++ ['a']) ++ ['e']
= (("T" ++ ['i']) ++ ['a']) ++ ['e']
= ("Ti" ++ ['a']) ++ ['e']
```

Acronym evaluation from the Left

Example of evaluation of `acronymL`

```
acronymL ["This", "is", "an", "example"]
= acronymAcc "" ["This", "is", "an", "example"]
= acronymAcc ("" ++ ['T']) ["is", "an", "example"]
= acronymAcc (("" ++ ['T']) ++ ['i']) ["an", "example"]
= acronymAcc ((("" ++ ['T']) ++ ['i']) ++ ['a']) ["example"]
= acronymAcc (((("" ++ ['T']) ++ ['i']) ++ ['a']) ++ ['e']) []
= (((("" ++ ['T']) ++ ['i']) ++ ['a']) ++ ['e']
= (("T" ++ ['i']) ++ ['a']) ++ ['e']
= ("Ti" ++ ['a']) ++ ['e']
= "Tia" ++ ['e']
```

Acronym evaluation from the Left

Example of evaluation of `acronymL`

```
acronymL ["This", "is", "an", "example"]
= acronymAcc "" ["This", "is", "an", "example"]
= acronymAcc ("" ++ ['T']) ["is", "an", "example"]
= acronymAcc (("" ++ ['T']) ++ ['i']) ["an", "example"]
= acronymAcc ((("" ++ ['T']) ++ ['i']) ++ ['a']) ["example"]
= acronymAcc (((("" ++ ['T']) ++ ['i']) ++ ['a']) ++ ['e']) []
= (((("" ++ ['T']) ++ ['i']) ++ ['a']) ++ ['e']
= (("T" ++ ['i']) ++ ['a']) ++ ['e']
= ("Ti" ++ ['a']) ++ ['e']
= "Tia" ++ ['e']
```

Acronym evaluation from the Left

Example of evaluation of `acronymL`

```
acronymL ["This", "is", "an", "example"]
= acronymAcc "" ["This", "is", "an", "example"]
= acronymAcc ("" ++ ['T']) ["is", "an", "example"]
= acronymAcc (("" ++ ['T']) ++ ['i']) ["an", "example"]
= acronymAcc ((("" ++ ['T']) ++ ['i']) ++ ['a']) ["example"]
= acronymAcc (((("" ++ ['T']) ++ ['i']) ++ ['a']) ++ ['e']) []
= (((("" ++ ['T']) ++ ['i']) ++ ['a']) ++ ['e']
= (("T" ++ ['i']) ++ ['a']) ++ ['e']
= ("Ti" ++ ['a']) ++ ['e']
= "Tia" ++ ['e']
= "Tiae"
```