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A visual guide to assignment #2

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FAQs - Module 2

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Calculate Maximum Word Frequency

Q: Why do I get a "undefined method 'highest_wf_words'" message?

A: The error:

```
1) Solution#calculate_line_with_highest_frequency calculates highest
   count words across lines to be will, it, really

   ...

   NoMethodError:
     undefined method 'highest_wf_words' for "really":String
```

The explanation:

1. Per **technical requirement 8**, the `Solution` class is supposed to have the `analyzers` array; which means that it has ALL `LineAnalyzers` objects.

   a. `highest_count_words_across_lines` which is ALSO an **array of `LineAnalyzers`** , but only those objects whose words have the highest frequency. It is **NOT** an array of strings. So, basically, it is a **SUBSET** of `analyzers` array.

   b. Per **technical requirement 12**, after calling `calculate_line_with_highest_frequency` method, the `highest_count_words_across_lines` attribute of the `Solution` class should be populated (see the item **1.a** what should be contained inside the `highest_count_words_across_lines` attribute)

2. Here is what the following line

   ```
   solution.highest_count_words_across_lines.map(&:highest_wf_words).flatten
   ```

   is doing when testing your solution:

Let's break it up:

a. `solution.highest_count_words_across_lines` - looks up the `highest_count_words_across_lines` attribute of `solution`. This attribute should contain... see **1.a**.

b. `map(&:highest_wf_words)` - is equivalent to `map { |elem| elem.highest_wf_words }`

It basically says, "extract `highest_wf_words` property of each element inside `highest_count_words_across_lines`" - which makes sense, since each element in there is a `LineAnalyzer` object - "and create another array of just `highest_wf_words` values"

c. `highest_wf_words` property is itself an **array**! So, if you have something like the following:

```
[["one", "two"], ["three"], ["five", "six"]]
```

What `flatten` will do is to make it one happy array as follows

```
["one", "two", "three", "four", "five", "six"]
```

Practice Assignment - Collections

Q: How to pass the test that expects array to contain 3 lines?

A: The first test expects to find 3 printed lines when it runs the file `module2_lesson2_formative.rb`. In order to pass the test, do not delete anything from the original file. Just add your solution to the end of this file.