

For each of the student submissions below, what feedback would you give to help them improve their submission, with a goal of eventually emulating the instructor solution (provided below)? Assume that the student will be able to resubmit their assignment after reviewing this feedback.

Instructor solution:

```
def combine_anagrams(words)
  words.group_by { |word| word.downcase.chars.sort }.values
end
```

Please read all the submissions before beginning to give feedback. Please don't move on to the next page until you have completed all the questions on this page.

Submission 1

```
1 def combine_anagrams(words)
2   results = Array.new
3   words.each do |e|
4     found = 0
5     results.each_index do |i|
6       if (results[i].first.downcase.split('').sort.join == e.downcase.split('').sort.
7         results[i].push(e)
8         found = 1
9       end
10    end
11    results.push([e]) if (found == 0)
12  end
13  return results
14 end
```

(For our reference: 30.4 604)

*

It looks like found is only set to 0/1, couldn't it just be a boolean?
It looks like you make the same calls to downcase + split + sort + join multiple times. Can you think of a way to make that drier?

Submission 2

```
1 def combine_anagrams(words)
2   words.group_by { |word| word.downcase.chars.sort }.values
3 end
```

(For our reference: 6.8 472)

*

None; your solution is about as good as it gets

Submission 3

```
1 def combine_anagrams(words)
2   hash = {}
3   words.each do |word|
4     sort_word = word.downcase.chars.sort.join
5     hash[sort_word] ||= []
6     (hash[sort_word] << word)
7   end
8   return hash.values
9 end
```

(For our reference: 10.9 610)

*

It looks like you make a hash and mutate it over the course of your loop. Can you think of a functional way to do the same thing? (Hint: #group_by)

Submission 4

```
1 def combine_anagrams(words)
2   ar = Array.new
3   words.map { |unique| unique.chars.sort.join.downcase }.uniq.map do |comp|
4     ar.push(words.select { |element| (element.chars.sort.join.downcase == comp) })
5   end
6   print(ar)
7 end
```

(For our reference: 24.5 658)

*

It looks like you print(ar) when the problem asked to return ar.
It looks like you make multiple calls to chars.sort.join.downcase. Can you DRY the code up?

Submission 5

```

1 def combine_anagrams(words)
2   words.group_by { |word| word.downcase.chars.sort }.values
3 end

```

(For our reference: 6.8 524)

*

None; your solution is about as good as it gets

Submission 6

```

1 def combine_anagrams(words)
2   hash = {}
3   words.each do |word|
4     letters = word.downcase.chars.sort.join
5     if hash.has_key?(letters) then
6       hash[letters] += [word]
7     else
8       hash[letters] = [word]
9     end
10  end
11  hash.values
12 end

```

(For our reference: 10.9 368)

*

It looks like you make a hash and mutate it over the course of your loop. Can you think of a functional way to do the same thing? (Hint: #group_by)

* Indicates Response Required

1 / 2

For each of the student submissions, rate the autogenerated hints on a scale of 1 to 5.

- 5 - **Highly relevant:** covers a key concept that should be improved.
- 4 - **Somewhat relevant:** helpful in a lesser way.
- 3 - **Neutral:** not helpful.
- 2 - **Irrelevant:** this hint is irrelevant
- 1 - **Harmful:** this hint is completely wrong and harmful

Please also comment on the degree to which these hints capture the feedback you gave in the previous step.

Submission 1

```
1 def combine_anagrams(words)
2   results = Array.new
3   words.each do |e|
4     found = 0
5     results.each_index do |i|
6       if (results[i].first.downcase.split('').sort.join == e.downcase.split('').sort.
7         results[i].push(e)
8         found = 1
9       end
10    end
11    results.push([e]) if (found == 0)
12  end
13  return results
14 end
```

(For our reference: 30.4 604)

Here's the feedback you gave for this submission:


It looks like found is only set to 0/1, couldn't it just be a boolean? It looks like you make the same calls to downcase + split + sort + join multiple times. Can you think of a way to make that drier?

* Here's the feedback the autograder gave:

To improve your style, consider...

...not using a call to new. 

...not using a call to first. 

...not using a call to join. 

* Comment here on the degree to which degree these hints capture the feedback you gave this submission.

The autograder only made a comment on getting rid of one call to join; I made a comment on getting rid of the entire

Submission 2

```
1 def combine_anagrams(words)
2   words.group_by { |word| word.downcase.chars.sort }.values
3 end
```

(For our reference: 6.8 472)

Here's the feedback you gave for this submission:

None; your solution is about as good as it gets

*** Here's the feedback the autograder gave:**No feedback generated *** Comment here on the degree to which degree these hints capture the feedback you gave this submission.**

Same as mine


Submission 3

```
1 def combine_anagrams(words)
2   hash = {}
3   words.each do |word|
4     sort_word = word.downcase.chars.sort.join
5     hash[sort_word] ||= []
6     (hash[sort_word] << word)
7   end
8   return hash.values
9 end
```

(For our reference: 10.9 610)

Here's the feedback you gave for this submission:

It looks like you make a hash and mutate it over the course of your loop. Can you think of a functional way to do the same thing? (Hint: #group_by)

*** Here's the feedback the autograder gave:****To improve your style, consider...**...using a call to split. ...not using a call to chars. *** Comment here on the degree to which degree these hints capture the feedback you gave this submission.**

Not quite the same ; I don't see how this feedback will result in better code.

Submission 4

```
1 def combine_anagrams(words)
2   ar = Array.new
3   words.map { |unique| unique.chars.sort.join.downcase }.uniq.map do |comp|
4     ar.push(words.select { |element| (element.chars.sort.join.downcase == comp) })
5   end
6   print(ar)
7 end
```

(For our reference: 24.5 658)

Here's the feedback you gave for this submission:

It looks like you print(ar) when the problem asked to return ar. It looks like you make multiple calls to chars.sort.join.downcase. Can you DRY the code up?

*** Here's the feedback the autograder gave:**

To improve your style, consider...

...using a call to each.



...using a call to uniq!.



...using a call to find_all.



...not using a method that produces hashes.



...not using a call to print.



*** Comment here on the degree to which degree these hints capture the feedback you gave this submission.**

I mentioned the call to print, but none of the other feedback.

Submission 5

```
1 def combine_anagrams(words)
2   words.group_by { |word| word.downcase.chars.sort }.values
3 end
```

(For our reference: 6.8 524)

Here's the feedback you gave for this submission:

None; your solution is about as good as it gets

*** Here's the feedback the autograder gave:**

No feedback generated



*** Comment here on the degree to which degree these hints capture the feedback you gave this submission.**

Same as mine

Submission 6

```
1 def combine_anagrams(words)
```

```
2 hash = {}
3 words.each do |word|
4   letters = word.downcase.chars.sort.join
5   if hash.has_key?(letters) then
6     hash[letters] += [word]
7   else
8     hash[letters] = [word]
9   end
10 end
11 hash.values
12 end
```

(For our reference: 10.9 368)

Here's the feedback you gave for this submission:

It looks like you make a hash and mutate it over the course of your loop. Can you think of a functional way to do the same thing? (Hint: #group_by)

*** Here's the feedback the autograder gave:**

To improve your style, consider...

...using a call to each_char.



...not using a call to chars.



...not using a call to join.



...not using a method that produces strings.



*** Comment here on the degree to which degree these hints capture the feedback you gave this submission.**

Not the same as my results; didn't see how this feedback would improve the code.

* Indicates Response Required

Close