

Live code

Use the IDE you want, but not integrated with AI features.

1 - Write a method with a list of strings as input that returns a list of the top N frequent words using Java.

- Ignore case sensitivity.
- Use the **Java streams** feature.
- Protect your method of unexpected/illegal parameters.
- Create unit tests using JUnit to test your method.
- Follow Test-Driven Development (TDD).

The method signature should be as below:

```
public static List<String>
findTopNFrequentWords(List<String> words, int n)
```

Here is an example input:

```
List<String> words = Arrays.asList("Java", "Javascript",
"java", "C++", "javaScript", "Groovy", "jAvA", "abap",
"ABAP", "aBaP");
int n = 3;
```

Output for the input above will be:

```
["abap", "java", "javascript"]
```

"Abap" appears 3 times and "java" appears 3 times, but "abap" appears first because of the alphabetical order.

"java" appears 3 times and "javascript" appears 2 times

2 - Write a Java method that reverses a given string **without using any built-in method for reversal**. Create unit tests.

3 - Write a Java method to check if the given string is a **palindrome** or not. A palindrome is a string that is read the same backward or forward. Create unit tests. 😊