

Problem Statement (duration 1.5 hour)

Build an Android app that contains:

- A text area to edit multi line text
- A word counter
- An undo button that undoes edits

Rough UI spec

```
+-----+
|                                     |
| +-----+ |
| |                                     | |
| | Text Edit control                 | |
| |                                     | |
| |                                     | |
| +-----+ |
| +-----+ |
| | 2 words                           | |
| +-----+ |
| +-----+ |
| | Undo button                       | |
| +-----+ |
|                                     |
+-----+
```

Detailed specification

- Both the word counter and undo operation should be based on when the text editor loses focus
 - As soon as focus is lost, the word count should be updated
- Undo button should be disabled if there is nothing to undo to
- When you have the undo option enabled, tapping the button should undo the text edit and show previous text, and the word counter should be updated at the same time as well
- Application should not crash or lose state on rotate / app switching / etc

Instructions

- This has to be a native android app (running on a device or an emulator)
- Use either Java or Kotlin
- Focus on completing the feature, and selecting a good internal design vs making the UI pretty, writing good quality code
- Bonus points for persisting the text across app starts (optional features, first make sure you have completed the basic feature set first)