

All of the following questions use an `ArrayList` of `String` objects. In your program create an `ArrayList` of `String` objects called `wordList`.

Use the **enhanced for (for each)** loop for all questions.

You can initialize your `ArrayList` with some `Strings` using the following code.

(There is no need to do this - but it will save you having to load the `ArrayList` with new values each time you run program).

```
ArrayList <String> wordList = new ArrayList<String>()
{
    {
        add("apple");
        add("cat");
        add("ball");
        add("dog");
    }
};
```

1. Write a program using a menu that will allow the user to continually add, remove, view one word or view all words in an `ArrayList` of `Strings` until the user selects quit.
2. Adapt the code so that the user can chose to add to the end of the list or to a particular position in list.
3. Again, implement two versions of remove, one where you remove a particular word, one where you remove a word from a position in list.
4. Add another option to the menu that will display all words on screen followed by the length of each the word.
5. Add another option to the menu that will display a list of all words beginning with a particular letter input by the user.
6. Adapt this so that it will also display the *number of words* beginning with some letter input by user.
7. Write code that will find the length of the longest word and shortest word in the list and will display the frequency of each.
8. Write code that will only allow the user to add unique words. If the word is already in the list, it will not be added.