

Family Name: \_\_\_\_\_

Given name: \_\_\_\_\_

DO NOT WRITE IN BOX  
FOR MARKING ONLY

Student ID: (fill in the boxes below, please write legibly)

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1.  2.  3.  4.

5.  6.  7.  8.

9.  10.

11.  12.

13.  14.

15.

16.

17.  18.  19.

20.  21.

22.  23.

## Long answer solutions

```
public class AlphabetSoup {
    public static int countChar(String s, char c) {
        int count = 0;
        for (int i = 0; i < s.length(); i++) {
            if (s.charAt(i) == c) {
                count++;
            }
        }

        return count;
    }

    public static boolean haveChar(String[] strings, char c) {
        for (int i = 0; i < strings.length; i++) {
            if (countChar(strings[i], c) == 0) {
                return false;
            }
        }

        return true;
    }

    public static String[] copySubArray(String[] original, int start, int end) {
        String[] sub = new String[end - start];
        for (int i = 0; i < sub.length; i++) {
            sub[i] = original[i + start];
        }

        return sub;
    }

    public static void main(String[] args) {
        if (args.length < 2 || args[0].length() != 1) {
            throw new IllegalArgumentException("Invalid input!");
        }

        boolean result = haveChar(args, args[0].charAt(0));
        if (result) {
            System.out.println("The letter " + args[0].charAt(0) + " is present in all of the strings");
        }
        else {
            System.out.println("The letter " + args[0].charAt(0) + " is not present in all of the Strings");
        }
    }
}
```