

```

//Nipun Jonnalagadda
//Contest 2

import java.io.File;
import java.io.FileNotFoundException;
import java.util.*;

public class NipunJonnalagaddaSamenessFactorC2Intermediate {
    public static void main(String[] args) throws FileNotFoundException {
        Scanner sc = new Scanner(new File("samefac"));

        String input = "";
        ArrayList<String> first = null;
        ArrayList<String> second = null;

        while (sc.hasNextLine()) {
            input = sc.nextLine();
            String[] twoWord = input.split(" ");
            String word1 = twoWord[0];
            String word2 = twoWord[1];
            String[] oneArr = word1.split("");
            String[] twoArr = word2.split("");

            first = new ArrayList<String>();
            second = new ArrayList<String>();

            for (String v : oneArr) {
                first.add(v);
            }
            for (String v : twoArr) {
                second.add(v);
            }

            int commonLength = first.size();
            if (second.size() < first.size())
                commonLength = second.size();

            for (int i = commonLength - 1; i >= 0; i--) {
                if (first.get(i).equals(second.get(i))) {
                    first.remove(i);
                    second.remove(i);
                }
            }

            for (int i = 0; i < first.size(); i++) {

                if (first.size() == second.size()) {
                    if (i < first.size() - 1) {
                        if (first.get(i).equals(second.get(i + 1))) {
                            second.remove(i);
                            first.remove(i);
                            second.remove(i);
                            i--;
                        } else if (second.get(i).equals(first.get(i + 1))) {
                            first.remove(i);
                            second.remove(i);
                            first.remove(i);
                            i--;
                        }
                    }
                }
            }
        }
    }
}

```

```

        }
    }
    } else if (first.size() < second.size()) {
        if (first.get(i).equals(second.get(i + 1))) {
            second.remove(i);
            first.remove(i);
            second.remove(i);
            i--;
        }
    } else if (first.size() > second.size()) {
        if (i + 1 < second.size()) {
            if (first.get(i + 1).equals(second.get(i))) {
                first.remove(i);
                second.remove(i);
                first.remove(i);
                i--;
            }
        } else {
            break;
        }
    }
}

} // end of for

int counter = 0;

commonLength = first.size();
int diff = 0;

if (second.size() < first.size()) {
    commonLength = second.size();
    diff = first.size() - second.size();
} else {
    diff = second.size() - first.size();
}

for (int i = 0; i < commonLength; i++) {
    counter += (int) (first.get(i).charAt(0) -
second.get(i).charAt(0));
}
counter += diff;

System.out.println(counter);
}
}
}

```