

# Java Program to find duplicate Characters in a String

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This program would find out the duplicate characters in a String and would display the count of them.

```
import java.util.HashMap;
import java.util.Map;
import java.util.Set;

public class Details {

    public void countDupChars(String str){

        //Create a HashMap
        Map<Character, Integer> map = new HashMap<Character, Integer>();

        //Convert the String to char array
        char[] chars = str.toCharArray();

        /* logic: char are inserted as keys and their count
        * as values. If map contains the char already then
        * increase the value by 1
        */
        for(Character ch:chars){
            if(map.containsKey(ch)){
                map.put(ch, map.get(ch)+1);
            } else {
                map.put(ch, 1);
            }
        }

        //Obtaining set of keys
        Set<Character> keys = map.keySet();

        /* Display count of chars if it is
        * greater than 1. All duplicate chars would be
        * having value greater than 1.
        */
        for(Character ch:keys){
            if(map.get(ch) > 1){
                System.out.println("Char "+ch+" "+map.get(ch));
            }
        }
    }

    public static void main(String a[]){
        Details obj = new Details();
        System.out.println("String: BeginnersBook.com");
        System.out.println("-----");
        obj.countDupChars("BeginnersBook.com");

        System.out.println("\nString: ChaitanyaSingh");
    }
}
```

```

System.out.println("-----");
obj.countDupChars("ChaitanyaSingh");

System.out.println("\nString: #@$@!#$%!!%@" );
System.out.println("-----");
obj.countDupChars("#@$@!#$%!!%@" );
}
}

```

Output:

```

String: BeginnersBook.com
-----
Char e 2
Char B 2
Char n 2
Char o 3

String: ChaitanyaSingh
-----
Char a 3
Char n 2
Char h 2
Char i 2

String: #@$@!#$%!!%@
-----
Char # 2
Char ! 3
Char @ 3
Char $ 2
Char % 2

```