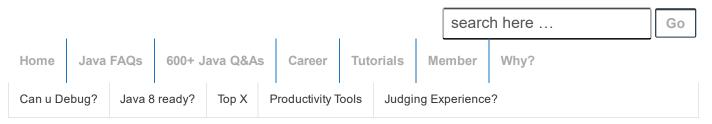
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Home > Interview > Core Java Interview Q&A > Algorithms > ◆ Splitting input text & string processing coding Q&A

♦ Splitting input text & string processing coding Q&A

Posted on April 2, 2015 by Arulkumaran Kumaraswamipillai

Q1. Can you write code to extract numbers from a given input text and return the sum of those numbers?

Example: "1 some text 2 more text 4 more text 8" should return 15 as the sum.

A The key steps are:

- **1.** Split the given input into tokens. Split on 1 or more spaces.
- 2. Loop through the tokens of text and sum if it is a number
- 3. Return the sum.

Solution

```
1 package algorithms;
```

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```
public class ExtractAndSumNumbersFromAString {
4
5
       public static void main(String□ args) {
6
           int sumOfNumbers = getSumOfNumbers("1 so
7
8
           System.out.println(sumOfNumbers);
9
10
11
12
       public static int getSumOfNumbers(String s)
13
           int total = 0;
           String[] input = s.split("\\s+"); //spli
14
15
16
           //loop through each split input
           for (String in : input) {
17
18
                int nextNumber = 0;
19
20
                //determine if number or not
21
                try {
22
                    nextNumber = Integer.parseInt(in)
                } catch (NumberFormatException nfe)
23
24
                    //not a number if exception is t
25
                } finally {
26
                    total += nextNumber;
27
28
29
30
           return total;
31
32 }
33
```

```
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Output:

```
1 15
```

Q2. Given a string, return a version without the first 2 chars. Except keep the first char if it is 'a' and keep the second char if it is 'b'.

For example:

```
1 removeCharacters("Absolute") --> absolute
2 removeCharacters("base") --> se
3 removeCharacters("Ant") --> at
4 removeCharacters("ubiquitous") --> biquitous
5
```

A2.

Solution:

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- **⊞** SDLC (6)
- ⊞ Security (13)

```
package algorithms:
3
  public class RemoveCharactersFromStringInput {
      5
6
8
9
          System.out.println(removeCharacters("ubi
      }
10
11
12
      public static String removeCharacters(String)
13
14
          input = input.toLowerCase();
15
16
          String firstChar = (input.length() > 0 &
17
          String secondChar = (input.length() > 1
18
19
          String remaing = input.length() > 2 ? in
20
21
          return firstChar + secondChar + remaing;
22
      }
23
24 }
25
26
```

Q3. Given a string and allowed repetition number, remove characters consecutively repeated more than the repetition number?

For example:

```
1 removeConsecutiveCharacters("aaab", 2) --> "aab"
2 removeConsecutiveCharacters("aaabbbb", 3) --> "a
3 removeConsecutiveCharacters("aabbbcccc", 1) --> "
4
```

A3.

- 1. Convert the input string to a char array
- **2.** Loop through each character, and if the current character == previous character, and within the repetition count, do nothing. If outside the repetition count, replace the character with a space character (i.e. ''). You could use some other characters <u>unlikely to be used in the input text</u> instead of a space character.
- **3.** After looping, find and replace all the space (i.e. '') characters with no-space (i.e. ").

Solution

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```
package algorithms;
3
   public class RemoveCharactersFromStringInput {
4
5
       private static final char MARKER_FOR_REMOVAL
6
7
       public static void main(String[] args) {
8
            System.out.println(removeConsecutiveChar
9
            System.out.println(removeConsecutiveChar
10
            System.out.println(removeConsecutiveChar
11
            System.out.println(removeConsecutiveChar
12
13
14
       public static String removeConsecutiveCharac
15
16
            char[] charArray = input.toCharArray();
            char lastChar = charArray[0]; //first ch
17
18
            int count = 1; //start with 1 as first
19
20
            //loop from 2nd character
            for (int i = 1; i < charArray.length; i+
    //Oops bad "MARKER_FOR_REMOVAL" sele</pre>
21
22
23
                if(charArray[i] == MARKER_FOR_REMOVA
24
                     throw new IllegalArgumentExcepti
25
26
27
                if(charArray[i] == lastChar){
28
                     ++count;
29
                     lastChar = charArray[i];
30
                     if(count > allowedRepetitionCoun
31
                         charArray[i] = MARKER_FOR_RE
32
33
                } else {
34
                     count = 1; //reset count 1 to in
35
                     lastChar = charArray[i];
36
                }
37
38
            }
39
40
            String output= new String(charArray);
41
            String result = output.replace(MARKER_FO
42
43
44
            return result;
45
46
       }
47
48 }
49
```

Output:

```
1 aab
2 aaabbb
3 abc
4 aabbabcc
5
```

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