JAVA PROBLEM SOLVING:**1108. Defanging an IP Address**

Given a valid (IPv4) IP address, return a defanged version of that IP address.

A *defanged IP address* replaces every period "." with "[.]".

**Example 1: space nd time complexity is o(n)**

**Input:** address = "1.1.1.1"

**Output:** "1[.]1[.]1[.]1"

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| class Solution {  public String defangIPaddr(String address) {  String defangIP = "";  for(int i = 0; i<address.length(); i++) {  char ch = address.charAt(i);  if(ch == '.') {  defangIP += "[.]";  }  else {  defangIP += ch;  }  }  return defangIP;  }  } |

Online compiler:

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| class DefangIP {  public static String defangIPAddress(String address) {  String defang = "";  for(int i = 0; i< address.length(); i++) {  char ch = address.charAt(i);  if(ch == '.') {  defang +="[.]";  }  else {  defang += ch;  }  }  return defang;  }  public static void main(String[] args) {  String address = "1.1.1.1";  System.out.println(defangIPAddress(address));  }  } |

EASY PROBLEMS IN STRING

**28. Find the Index of the First Occurrence in a String**

Given two strings needle and haystack, return the index of the first occurrence of needle in haystack, or -1 if needle is not part of haystack.

**Example 1:**

Input: haystack = "sadbutsad", needle = "sad"

Output: 0

Explanation: "sad" occurs at index 0 and 6.

The first occurrence is at index 0, so we return 0.

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| * int indexOf() * int indexOf(char ch, int strt) * int indexOf(String str) * int indexOf(String str, int strt) |

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| class Solution {  public int strStr(String haystack, String needle) {  return haystack.indexOf(needle);  }  } |

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| class Solution {  public static void main(String[] args) {  String haystack = "sadbutsad";  String needle = "sad";  System.out.println(haystack.indexOf(needle));  }  }  (Or)  class Solution {  public static void main(String[] args) {  String haystack = "sadbutsad";  String needle = "sad";  System.out.println(strStr(haystack, needle));  }  public static int strStr(String haystack, String needle) {  return haystack.indexOf(needle);  }  } |