In-class / Lab - Practice with Recursion

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Part I: A palindrome is a sequence of characters or numbers that reads the same both frontwards and backwards. For example the numeric string "12321" or the characters "racecar" are palindromes.

Create a Java method that will accept a String and will <u>recursively</u> determine if the characters/numerals in the String form a palindrome.

import java. ut. 1 Scarner,



```
Public static word main (String E) args)
             Scanner Kb = new Sconer (System.n);
            System out println ( fleep enter the word you wish to check it it's a fall normal of
            pal = kh.nertline();
            if (is Palidrome String());
System out. pr.nin( Palirdrome! ");
             System out printle (" No Paindrome for you"); 3//end main
     public static boolean is Palindrome (String str)
    { str = str. toUpper(aul);
          return is Palindrome (string, O, String, length ()-1); }
   private static boolean is Palindrome (String str, int top, int bottom)
      if (bottom (= top)
        return tree:
     if (Str. CharA+(top) Z'A' 11 (String. CharA+(top) >'Z'))
       (eturn is Palindrome (str, top +1, 1 ms +);
    if (str. CharAt (bottom) L'A' 11 (str. charAt (bottom) 2'2'))
       return is Palindrome (str, top, bottom - 1);
   if (str. char At (top) != str. char At (bottom))
      leturn false;
? return is Palindrome (strytop+1, last-1);
```