Find Unique (Arrays as hashmap) Str= "152215021"; 111111111 create freq. avoing unique no: chan d= str.chanAt(i); int ida= ch-'0';

Q

()

3

3

0

0

```
152215021
           Char ch = str. charAt(i);
            int ida = ch - '0';
                                       public static void main(String[] args) {
                                          Scanner scn = new Scanner(System.in);
            freq [ida] = true;
                                          String str = scn.nextLine();
                                          System.out.println(findUnique(str));
                                       public static int findUnique(String str) {
                                          boolean[] check = new boolean[10];
                                          for (int i = 0; i < str.length(); i++) {
T. C = O(n)
                                              char ch = str.charAt(i);
int idx = ch - '0';
      where n & size
                                              check[idx] = true;
                                          int count = 0;
                                          - for (boolean i : check) {
                                              if ( i == true ) {
                                                  count++;
S.C = O(1)
                                          return count;
```

Is Palindrome (2 pointer)

- 1) make 2 pointure at 0 and (n-1)
- 2) loop until i < j a.i) check if charati != charatj then return false
 - 3) return true

```
code
```

```
public static void main(String[] args) {
    Scanner scn = new Scanner(System.in);
    String str = scn.nextLine();
    boolean ans = isPalindrome(str);
    if ( ans == true ) {
        System.out.println("Palindrome");
    } else {
        System.out.println("Not a Palindrome");
}
public static boolean isPalindrome(String str) {
    int i = 0;
    int j = str.length() - 1;
    while ( i < j ) {
        if ( str.charAt(i) != str.charAt(j) ) {
            return false;
        j++;
        j--;
    return true;
}
```



```
public boolean isPalindrome(String s) {
   String str = "";
   for (int i = 0; i < s.length(); i++) {
       char ch = s.charAt(i);
       if ( (ch >= 'a' && ch <= 'z') || (ch >= 'A' && ch <= 'Z') || (ch >= '0' && ch <= '9') ) {
           str = str + ch;
                                                          S="A man is 012, aho
   str = str.toLowerCase();
   return isPalindrome1(str);
                                                       str= "Amanis OL 2 abo
public static boolean isPalindrome1(String str) {
   int i = 0;
   int j = str.length() - 1;
   while ( i < j ) {
       if ( str.charAt(i) != str.charAt(j) ) {
           return false;
       i++;
       i--;
    return true;
```

Str = "abc" String is immutable str1 = "efg" str2 = str + str1; level arch. heap " abc" Str2="abc" Str1 = "abc" 1004. stack

Note: whenever you are comparing 2 strings never we == or != instead we equals

Locate the Target String

brute force

4 generate all substings
and check

str= "geckster", tar = "st" = ek 2 2 ee ge eks eek kst gee ekst 2×199 kste geek kster ekste eekst geeks ecster eekste much mehenat geekst eekster geekste geekster

str = "geckstersteo"

o1284567891011

target = "steo"
$$8+1=9$$

$$8+2=10$$

$$8+3=11$$

Psudo code 1) make 2 pointers 2) loop until i < len of str 2.1) loop unt j < len of target 2.11) char at i] = charat ; break; $\frac{2.1.2}{=}$ if $j = \pm \frac{1}{1}$ tor. length then return i

```
public static void main(String[] args) {
    Scanner scn = new Scanner(System.in);
    String str = scn.nextLine();
    String target = scn.nextLine();
                                                                                       4+3
    System.out.println(locateTarget(str, target));
public static int locateTarget(String str, String target) {
    for (int i = 0; i <= str.length() - target.length(); i++) {</pre>
        for (int j = 0; j < target.length(); j++) {</pre>
            if ( target.charAt(j) != str.charAt(i + j) ) {
                break;
            if ( j == target.length() - 1 ) {
                return i;
    return -1;
```

