Count Words.

Can you create a program that can **count** the number of **words** present in the Samantha's short story.

space + 1 = words

Sample Input 0

```
Welcome to geekster
```

Sample Output 0

```
3
```

* Count consecutive. space as single space.

hi → 1

hi (_ _ _) my → 2

He (_) is (_)a → 3

flower (_ _)cool (_ _)awsm (_)day → 4

hi _ my → 2 words.

hi _ _ _ _ my → 1

space = ~~X~~ 2

$\_\_\_$ ab $\_\_\_$ cd$\_$e $\_\_\_$ words = ?

②

0 1   2 3 4 5 6 7 8

i

ch = ' '

pch = d

```java
1  import java.io.*;
2  import java.util.*;
3
4  public class Solution {
5
6      public static void main(String[] args) {
7          Scanner scn = new Scanner(System.in);
8          String s = scn.nextLine();
9          int space = 0;
10
11         for(int i = 1; i < s.length(); i++){
12             char ch = s.charAt(i);
13             char pch = s.charAt(i-1);
14             if(ch == ' ' && pch != ' '){
15                 space++;
16             }
17         }
18         System.out.println(space + 1);
19     }
20 }
```

Locate the Target String

Given two strings str & target, return the index where target string occurs for the first time in String str.

Sample Input 0

geekster
st

Sample Output 0

4

Sample Input 1

geekster
ab

Sample Output 1

-1

.indexOf( )

s → g e e k s t er .
0 1 . 2 3 4 5 6 7

t → s t
0 1

s . indexOf (t) →

```java
import java.io.*;
import java.util.*;

public class Solution {

    public static void main(String[] args) {
        Scanner scn = new Scanner(System.in);
        String s = scn.next();
        String t = scn.next();

        System.out.println(s.indexOf(t));
    }
}
```

```java
import java.io.*;
import java.util.*;

public class Solution {

    public static void main(String[] args) {
        Scanner scn = new Scanner(System.in);
        String s = scn.next();
        String t = scn.next();

        System.out.println(s.indexOf(t));
    }
}
```

Find Unique

Alice was a computer science student who loved to experiment with different programming techniques. One day, she came across a problem that required her to find the total number of **unique** digits in a given **string**.
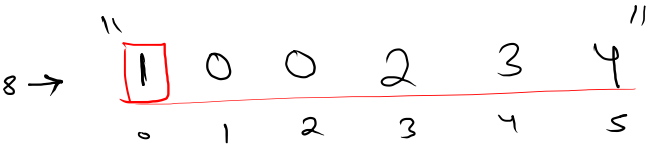
wirte a program that find out the number if unique digits in a string.
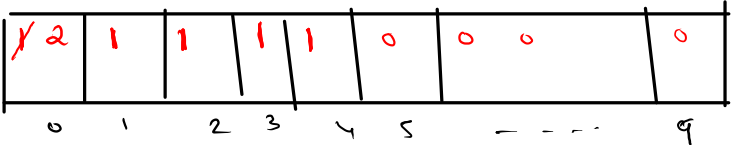
Sample Input 0

```
100234
```

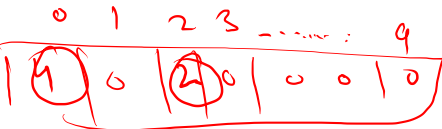**Sample Output 0**

```
5
```

Sample Input 1
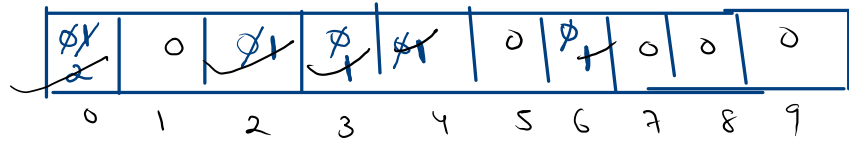
```
000022
```

Sample Output 1

```
2
```

```java
import java.io.*;
import java.util.*;

public class Solution {

    public static void main(String[] args) {
        Scanner scn = new Scanner(System.in);
        String s = scn.next(); // 200436 --> ans = 5

        int [] freq = new int[10];  //0-9
        for(int i = 0; i < s.length(); i++){
            char ch = s.charAt(i);   //'2'
            int idx = ch - '0';
            freq[idx] = freq[idx]+1;
        }

        //count non zero
        int count = 0;
        for(int i = 0; i < freq.length; i++){
            if(freq[i] != 0){
                count++;
            }
        }

        System.out.println(count);
    }
}
```


$$f[2] = f[2]+1$$

$8 \rightarrow$ 2 0 0 4 3 6

'2' - '0'

50 - 48

idx = 2

'2'

char $\longrightarrow$ int

Palindrome:

n a m a n

naman

c d c b   a   a a @ c d c

i   j

```java
import java.io.*;
import java.util.*;

public class Solution {
    public static boolean isPalindrome(String s){
        int i = 0;
        int j = s.length()-1;
        while(i < j){
            if(s.charAt(i) != s.charAt(j)){
                return false;
            }
            i++;
            j--;
        }

        return true;
    }

    public static void main(String[] args) {
        Scanner scn = new Scanner(System.in);
        String s = scn.next();
        boolean ans = isPalindrome(s);
        if(ans){
            System.out.println("Palindrome");
        }else{
            System.out.println("Not a Palindrome");
        }
    }
}
```

s → "a b b c c b b a"

i   j