

Print Characters

given \rightarrow $s \rightarrow$ "Geekster"

loop \rightarrow {
 G
 e
 e
 k
 s
 t
 e
 r
}

```
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.next();
9         for(int i = 0 ; i < s.length(); i++){
10             char ch = s.charAt(i);
11             System.out.println(ch);
12         }
13     }
14 }
```

Is Equal?

Sample Input 0

s → GEEKSTER
t → GEEKSTER

s → GEEKSTER
t → GEEKSTER

Sample Output 0

true

Java →
↓

s.equals(t) → T/F

```
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.next();
9         String t = scn.next();
10
11         System.out.println(s.equals(t));
12     }
13 }
```

```
1 import java.io.*;
2 import java.util.*;
3
4 public class Solution {
5
6     public static boolean isEqual(String s, String t){
7         if(s.length() != t.length()){
8             return false;
9         }
10        for(int i = 0; i < s.length(); i++){
11            if(s.charAt(i) != t.charAt(i)){
12                return false;
13            }
14        }
15        return true;
16    }
17
18    public static void main(String[] args) {
19        Scanner scn = new Scanner(System.in);
20        String s = scn.next();
21        String t = scn.next();
22
23        System.out.println(isEqual(s,t));
24    }
25 }
```

Print Indices of Vowels

8 → G e e k s t e r
 0 1 2 3 4 5 6 7

o/p.

1 2 6 .

```
1 import java.io.*;
2 import java.util.*;
3
4 public class Solution {
5     public static boolean isVowel(char ch){
6         if(ch == 'a' || ch == 'e' || ch == 'i' || ch == 'o' || ch == 'u'){
7             return true;
8         }
9         return false;
10    }
11    public static void main(String[] args) {
12        Scanner scn = new Scanner(System.in);
13        String s = scn.next();
14        for(int i = 0; i < s.length(); i++){
15            char ch = s.charAt(i);
16            if(isVowel(ch) == true){
17                System.out.print(i + " ");
18            }
19        }
20    }
21 }
```

Count Words

Sample Input 0

```
Welcome to geekster
```

Sample Output 0

```
3
```

* Welcome _ to _ geekster
 ↑ ↑

↳ 2 space = 3 words?

* Hi _ there

↳ 1 space → 2 words_

* Hi
 ↳ 0 space → 1 words_

* Hello _ everyone _ how _ are _ you

↳ 4 space → 5 words.

$s \rightarrow$ "welcome _ _ _ you _ _ all _ stars"
 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 . . .
 ↓
 ↑

$sp = 3$

ans = 4.

$s[i] == ' '$ && $s[i-1] != ' '$
 \hookrightarrow space++

welcome _ you _ all _ stars

$s.charAt(i)$

$ch == ' '$
 \hookrightarrow space++

```
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 count = 1;
10
11         for(int i = 1; i < s.length(); i++){
12             if(s.charAt(i) == ' ' && s.charAt(i-1) != ' ' ){
13                 count++;
14             }
15         }
16
17         System.out.println(count);
18     }
19 }
20 }
```

125. Valid Palindrome

Input: s = "A man, a plan, a canal: Panama"

Output: true

Explanation: "amanaplanacanalpanama" is a palindrome.

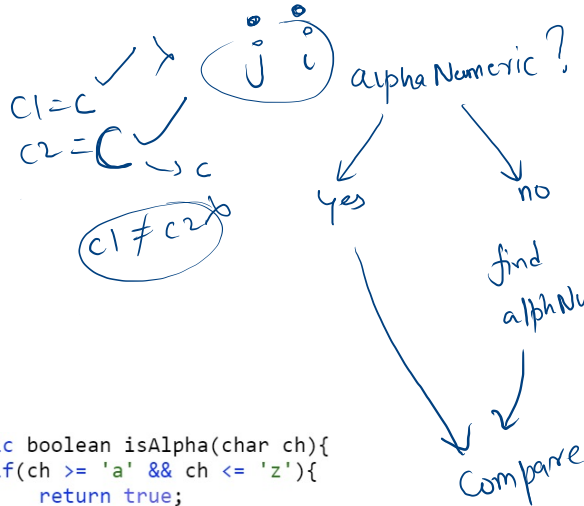
$s \rightarrow$ "A_man,_a-plan,_a-canal:-Panama"

6 a m a n a p l a n a c a n a l p a n a m a
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20

$s \rightarrow$ "A_man,_a-plan,_a-canal:-Panama"
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
i j

A == a
- A

8 → "A ? 8 b B # # c C B b .. 8 a



```

3 public boolean isAlpha(char ch){
4     if(ch >= 'a' && ch <= 'z'){
5         return true;
6     }
7     else if(ch >= 'A' && ch <= 'Z'){
8         return true;
9     }
10    else if(ch >= '0' && ch <= '9'){
11        return true;
12    }
13    return false;
14 }

```

```

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44

```

```

public boolean isPalindrome(String s) {
    int i = 0;
    int j = s.length()-1;
    while(i < j){
        char c1 = s.charAt(i);
        char c2 = s.charAt(j);
        if(!isAlpha(c1)){
            i++;
        }else if(!isAlpha(c2)){
            j--;
        }else{
            //compare
            if(c1 >= 'A' && c1 <= 'Z'){
                c1 = (char)(c1 - 'A' + 'a');
            }
            if(c2 >= 'A' && c2 <= 'Z'){
                c2 = (char)(c2 - 'A' + 'a');
            }
            if(c1 != c2){
                return false;
            }
            i++;
            j--;
        }
    }
    return true;
}

```

) == false

