Question Is equal

1. Str 1 = "Hello"
2. Str 2 = "Hello".

```
if ( str1.length()!= str2.length()) {
              Syse ("false") return;
}
else {
        for ( i=0 => str1.length()) {
            -if ( str1.charAt(i) != str2.charAt(i)
                  Syso ("false") return;
        }
}

=> Syso ("true");
```

str1 = Hello
        0 1 2 3 4 5

str2 = Hello
        0 1 2 3 4

[==]

```
str1 = "good";
str2 = "good";
Syso ( str1.equals(str2));
```

```java
public static void main(String[] args) {
    Scanner scn = new Scanner(System.in);
    String str1= scn.nextLine();
    String str2 = scn.nextLine();
    System.out.print(str1.equals(str2));
    /* Enter your code here. Read input from STDIN. Print output to STDOUT.
}
```

Diff b/w next() & nextLine()

Kartik Rai

String str = scn.next(); // take input till
                              next space

str = "Kartik"

String str = scn.nextLine();

str1 = "Kartik Rai";

Question

String = "Education";

for(i=0 to str.length()){
  if(str.charAt(i)=="a" || =="i" || ==="e|== "o", == "u"){
    syso(i);
  }
}

[E d u c a t i o n]
 0 1 2 3 4 5 6 7 8

[0 2 4 6 7]

"0123"
good"
i2

```java
public static void main(String[] args) {
    Scanner scn = new Scanner(System.in);
    String str = scn.nextLine();
    for(int i=0;i<str.length();i++){
        char ch = str.charAt(i);
        if(ch=='i'||ch =='a' || ch=='e' || ch=='o'|| ch=='u'){
            System.out.print(i+" ");
        }
    }
    /* Enter your code here. Read input from STDIN. Print output to STDOUT. Your c
}
```

Ques   Count words

str = "Hellow I am going to Goa";

[str = "__ [Hellow -- I -- am] __";
    → fail

//s+

// st String[] arr = str.trim().split("\\s+");

        0   1   2   3
["Hellow", "I", "am", "going",
    "to", "Goa"]
     4   5

[arr.length]

6 Ans

```java
public static void main(String[] args) {
    Scanner scn = new Scanner(System.in);
    String str = scn.nextLine();
    String[] arr = str.trim().split("\\s+");
    System.out.println(arr.length);
    /* Enter your code here. Read input from STDIN. Print output to STDOUT. Your
}
```

str = "I_am_ohk";
arr ["I", "am", "ohk"] = 3 ✓ True

str = "_{Hi_I_am_ohk}";
arr = ["Hi", "I", "am", "ohk"]; = 4 True

"list"   str = "Hi___I__am_ohk";
arr = ["Hi", "I", "am", "ohk"] = 4 True

Qny

"1 0 0 1 1 2 3 4 4 5 6 7 8 8 8 ";

Count Unique characters.

Approach 1 → Sort the string

$$str.charAt(i) \ != \ str.charAt(i-1);$$

∝ O(n logn);

Approach 2 →

0	1	2	3	4	5	6	7	8	9
0	0	0	0	0	0	0	0	0	0

2   1   1   +2

```
if (arr[i] > 0) {
      cont ++;
}
```

4

```
  0 1 2 3 4 5
u 1 2 1 3 4 4   u
i  ↑ ↑ ↑ ↑ ↑   i
```

SP = " 0 ";

`1` , `2`

Approach 3   String = " 1 0 1 1 1 2 2 0 3 4 5 ";

HS
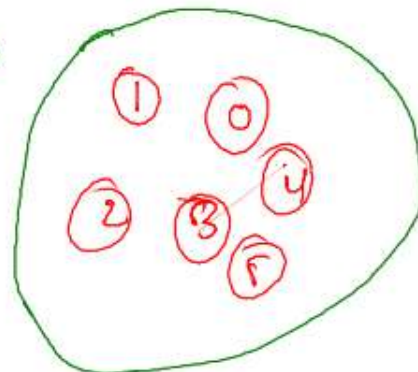
hs.size();

flashSet   unique element.

a a a a   a b b b

a b
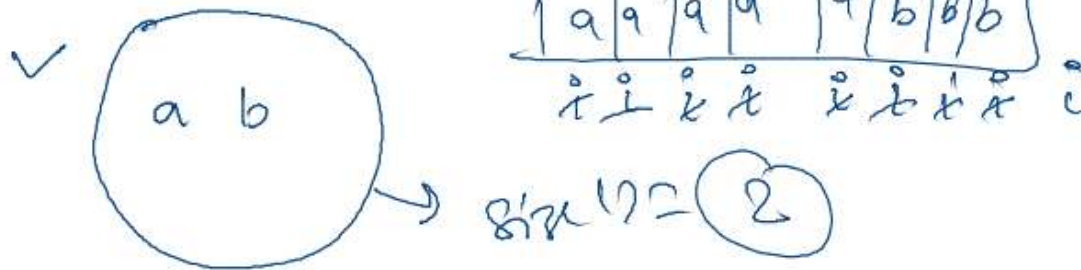
size () = 2

```java
public static void main(String[] args) {
    Scanner scn = new Scanner(System.in);
    String str = scn.nextLine();
    HashSet<Character> hs= new HashSet<>();
    for(int i=0;i<str.length();i++){
        hs.add(str.charAt(i));
    }

    System.out.print(hs.size());
    /* Enter your code here. Read input from STDIN. Print output to
}
```

Question

Locate the target String

Str1 : $\overset{0\ 1\ 2\ 3\ 4\ 5\ 6\ 7}{\text{Geek ster}}$　　　$\overset{0\ 1\ 2\ 3\ 4\ 5\ 6\ 7}{\text{"Geek ster"}}$

Str2 : "ek"

output = 2

```
for ( i = 0 to str1.length){
    if ( str1.charAt(i) == str2.charAt(0) ){
        J=0  K=i
        while ( J < str2.length){
            if ( str.charA(K) != str.charAt(J)){
                break;
            else{
                K++;
                J++;
            }
        }
        if ( J == str2.length - 1) {
            syso(i)
            retu;
        }
    }
}
```

$str1.indexof(str2);$

T $\Downarrow$ index || false "-1"

0 1 ②3 4 5 6 7 (n)

$str1 = G e e k s t e r$

i i i
k k j

$str2 = e k \quad (m)$

0 1

j ≠ j

$if (\delta == str2.length-1)$ {

s480 (i);

}

$("-1")$

$O(n)*m$

str1 indyof (str2);

$\Downarrow$ $\Downarrow$ "-1"

index
value

```java
public static void main(String[] args) {
    Scanner scn = new Scanner(System.in);
    String str1= scn.nextLine();
    String str2 = scn.nextLine();

    int val = str1.indexOf(str2);
    System.out.print(val);
    /* Enter your code here. Read input from STDIN. Print output to STDOUT. Your
}
```

Question

$$\overset{0\ 1\ 2\ 3\ 4\ 5\ 6\ 7\ 8\ 9\ 10\ 11}{\text{"Termination";}}$$

S   a

1

9

$$\left(\frac{\text{end}-\text{start}-1}{9-1-1}\right)$$

$$=\boxed{7}$$

$$\begin{bmatrix} 1 = str.indexof(en); \\ 9 = str.index of(ch); \end{bmatrix}$$

$$start = (9-1-1) = 7$$

```java
// int st = str.indexOf(c);
// int en = str.indexOf(s);
int st=0;
int en =0;
for(int i=0;i<str.length();i++){
    char ch = str.charAt(i);
    if(ch == c){
        st=i;
    }
    if(ch==s){
        en=i;
    }
}
System.out.println(en-st-1);
/* Enter your code here. Read input from STDIN. Print outp
}
```