



```
x=1234

sum=0

sum(1234) = sum(123) + 4

sum(1234) = sum(123) + 4

sum=0

sum=0
```

```
acbbaaadd 11022
               Counter=3
             countr[i] = countr[i]+1
Z-122-25) Z-90-51 9-57->61
```

```
print Charce County (String s) of
"Rohankumar32;
                                                                             0 1 2
                           l = s. length();
K : 1
                                                                           [3 1 2]
abc
R : 1
                           a Count, 1 cent, ..., 9 count
a Count, b Count, ..., z Count
A Count, B Count, ..., z Count
a : 2
ጉ፡ !
                                                                        "abccaa"
                          fr((i=0) i<1; i++) {
m : |
                              char (= s. cherAt(i);
u:1
                                                                         public static void printcharcount (oring s) {
                              (f(c == 'A') {
 0:1
                                ACount += 1
7:1
                               t else of (c== 'B') {
                                                                           1. Initialize counts averag
u : 1
2: |
                                                                            2. loop over each cher
                        0 1 2 ... 25 26 27 ... 51 52 53 ... 61
 3 : 1
                                                                               & incremed in
                      [300...000..000..07
                        A, B, C ... Z, a, b ... z, 0, 1, ..., 9
                                                                              count array
                                                              A:3
"aaAAAbcdd1"
                                                                           3. Loop over court array
                                                  0 -48
                        A - 65
                                    0-97
                                                                             a print all non-zero
A: 3
                                                  1 - 49
                        B - 66
                                     b - 98
a: 2
                                                  2 -50
                                                                        int () count
                        C - 67
                                     c - 99
b: 1
                                                  3 -51
                        D - 68
                                                                            = new int [62];
c: 1
                                                                        for (1=0) i < con. cm; (4+) {
d: 2
                                                  9 - 57
                                                                         0 = (i) etunes
                                    z - 122
                        Z- 90
 1:1
                                                  (= av+4
                      i= av-65
                                   i= av-71
```

 $\begin{bmatrix} 11 \end{bmatrix} \rightarrow 11$ $\begin{bmatrix} 2,7,-3 \end{bmatrix} \rightarrow 7$ $\begin{bmatrix} -1,5,2,-11 \end{bmatrix} \rightarrow 5$

Robin eats applies -> nahor eate applies
barrana -> barrana
apple -> eppla

input > "One two three"

fo -> "enO_owt_"

cw -> "three"

```
int[] arr = new int[] of1, 12, 3};
   int x = scanner.next Int();
-> print ("Num at index " + 2 +" is "
                            + arr [2]);
   scanner, close ();
   print ("End")
   int[] arr = new int[]{1,2,35;
   int z = scarner.nontInt();
   try 1
      print ( ... + arr [z] );
   3 catch (Exception e) s
      print ("Entered "+2+
               "out of bound");
   scanner. close ();
   print ("End");
```

```
"__hello;__world.!,_:_"
"hello world"
1. only one space between words
2. Input boson't cutain nums
3. Ontain alphetete (u & l)
        & special char
4. No spl chare in middle of word
    ( words are separated by
     attent me spoa in injut)
" , ' hells); "
```

"hello"

```
"., ast, " -> "ast"
  word = ""
                               "., abc;! def. "
  for each ch in input of
     if (ch is alpha) {
       word += ch;
      else if (word not cryty) of
         final = final + word + " "
return first;
```

[10, 10, 7]
$$SS = 10^2 + 3^2$$

 $hS = 10$
for each side l
 $if (side = hs)$
online

10,10,7 hs=10Sum eq all sides = $10^2 + 10^2 + 7^2 = 0$ $b \rightarrow sum$ of sq of remaining sides $b = 0 - hs^2$ and (10, 10, 7) \downarrow sort (7, 10, 10) (10, 10) (10, 10) (10, 10) (10, 10) (10, 10) (10, 10) (10, 10) (10, 10) (10, 10)(10, 10)

```
char ch = 'a';
 Character. is Letter (ch) -> true
 Churacter, is Lower (ch) -> true
 Character. is Upper (ch) -> falce
 Character. to Lower ('U') -> 'u'
 Character. to Lower (ch) -> 'a'
 character. to Upper (ch) -s 'A'
char reverse Char (char ch) of
    if (Character. is Letter (ch)) {
         if (Chrocker. is Upper (ch)) of
              return (havacter-tolower(ch);
             return (hovoctivitolypur(ch);
```

```
for (int 1=0; 1<10; 1++) of
       4 (i 1/2==0) {
           print ("wur")
     if (11/2==0) {
                      boulean runlt;
                      if ( == 2 ) 4
if (a==2) {
                         result true;
  rotum tru;
                      3) relult=false;
  ruhim forly;
                      volum venult;
```

if (0<2) { if (a < 2){ return 100; return 100% 11022 if (a < 5) f dse if (a < 5) { return 200; return 200; 1/ 125 Unif (a < 10) h if (a < 10) { rotum 300; return 300; // a ≥ 10 return 400; return 400;

```
String a = "rohan";
String b = "foo";
int a = a. length(); ->5
int y= b. length(); +3
clus string {
   public static int length () of
des Tet 6
     public static int sun (inta.
        rutum x+y;
     public world test () {
         int a = Sum (2/3);
```

```
public den Engine 1
public class Card
                                      string nome
   string name;
                                     public int get (() d
   public String getName()&
                                     return cc;
      return name;
                                    public String gettVoru()4
    (ax el = new (1x(");
    cl. name = "Teslai";
    Cor (2 = nue (ox ();
    (2. mame = "Toyota";
   String x = cl.gelName();
   String y = c2.9 & Name ();
   Engine el= new Engine ();
    el. cc = 1000;
el. nom = "Honda"
   String z = el.getName(); -> Honda
     z. length()
```

return rome,

```
public den Point of
                                 main () {
                                                                      Point
    int a; int y;
                                    Point a = new Point (2,3)
    public Point (int initx, int inity)
   pullic int getX() {
      return x;
                                    a.g. (); -> 2
   public int getY() {
                                    a.setx(5);
      roum y;
                                    a.getx(); > 5
                                    a. increment X()
   public void setx (int newx),
                                    a. in overnent X ()
     z = nwx;
                                    a.getx(); >> 7
   public void sety (int now Y) f
                                    a. decrementy ();
       y = newy;
                                    a.getY(); -> 2
   public void inerement X() of 3
        スニスナー
   public void decrement Y() L
        y = y - 1;
```

```
Class Profuser
-> salary (int)
    fixtName
    (ast Name
    subject
   / getters & setters for all attribles
   get FullName ()
   inerument Solbry () y increment
                            arrest
                            salery by 10000
  1/ constructor
```

```
public class Past of frag (String dra) {

public String frag (String dra) {

main () d.

Part 1 q = new Part 1()

String & u = q. frag ("SMH...")

}

"ATG.."
```

```
class Prob of
                                  class Driver of
   String & Name;
                                      main () {
   String [Name;
                                          Prof roben = new Prof ("Roban", "Kurrer");
   public Prof (String &,
                                           Prof dt = new Prof ("Dherma"
                  String L) {
        this flame = f.
                                          print (roben get FName());
        thic. Wome = 1;
   public String getFName () of 3
        return this. [Name;
                                                      mein
   public String get FullNorm () 6
                                                       rohan [-
       octum this. EName + " 1 +
                                                                           Rohan
                    this (Nome;
                                                                           kum
                                                                          frame [
                                      27
                                                                          LNome [
                                      Dhama
                                                                        Dhuma
```

```
ba'abbcdbbetgbbarbbh" cat
a + "bb"
                    b. index08(0,0)
 hormany (a,b) -> 4 b. index of (a,3)
                10 6 b. index 06 (a, 12)
  index To Look From = O trindex (7 10,16)
   while (true)
         int a Index = b. index of (a, ind);
         if (aIndex == -1) d
               return c;
         C+=1;
         ind = a Index + a length();
```

```
href="https://youtube.com/AbCd" nello"
hr="http:// YouTuBe. (on/abcd"
hr="https://youtube.com/aBcD"
https://youtube.com/AbCd
http://youTube.com/abcd
https://youture.com/abcD
```

```
for each word follower (seel)

a= "youtube.com"

i= nW.inder of (a);

if (i==-1) (

continue;

ind stort=

(nt end =

print (substance between

stort fend)
```

Jerable < string > a = ...

for (String w: a) {

print(w);

}

Iterable < inl > b = ...

for (int i: b) {

print(i)

}

```
[nt[] nums = new int[7(3,7,-11];
for (int i= 0; i < nume. length; i++) of -11
    println(nums(i));
for (int rum: rums) {
     println(num);
Thrable< string> it = ..
for (string w:it) of
  (m) yoursel
```

```
0: 3
1:7
2:-11
```

for (int i=0; i<n/more length; i++) {
 println(i+":"+num(i));
}

```
<html>
    Hey there 
    <br/>
    <html>
Hey
there
<br/>
<br/>
<html>
<html>
Hey
there
<br/>
<html>
<htm
```

href "abc"= "http://youthbe.com/abcd"helle"de"

yt Index

"(""/") forstriverow