```
public class 0 Basics{
// Count Digits
class Solution {
  static int evenlyDivides(int N) {
     // code here
     int x = 0:
     int k = N;
     while (N != 0) {
        int d = N \% 10:
        if (d!=0\&\&k \% d == 0) {
          X++;
        N = N / 10:
     return x;
  }
// Reverse a Number
class Solution {
  public int reverse(int x) {
     int rev = 0;
     while (x != 0) {
        int d = x \% 10:
        if (rev >= Integer.MAX VALUE / 10 || rev <= Integer.MIN VALUE / 10) {
          return 0;
        rev = rev * 10 + d;
        x = x / 10;
     }
     return rev;
  }
// Check Palindrome
class Solution {
  public boolean isPalindrome(int y) {
     int rev = 0;
     int x = y;
     boolean sign = y \ge 0? true : false;
     if (sign == false) {
        X = -X;
     while (x != 0) {
        int d = x \% 10;
        rev = rev * 10 + d;
        x = x / 10;
     if (rev == y \&\& sign == true) {
        return true;
```

```
} else if (sign == false) {
        return false;
     return false;
  }
// GCD Or HCF
// Armstrong Numbers
// Print all Divisors
// Check for Prime
// Understand recursion by print something
class Solution {
  public void printNos(int N) {
     // Your code here
     if (N == 0) {
       return;
     printNos(N - 1);
     System.out.print(N + " ");
  }
}
// Print name N times using recursion
class Solution {
  void printGfg(int N) {
     // code here
     if (N == 0) {
        return;
     System.out.print("GFG ");
     printGfg(N - 1);
  }
}
// Print 1 to N using recursion
class Solution {
  public void printNos(int N) {
     // Your code here
     if (N == 0) {
        return;
     printNos(N - 1);
     System.out.print(N + " ");
  }
}
```

```
// Print N to 1 using recursion
class Solution {
  void printNos(int N) {
     // code here
     if (N == 0) {
       return;
     System.out.print(N + " ");
     printNos(N - 1);
  }
// Sum of first N numbers
class Solution {
  long sumOfSeries(long N) {
     // code here
     if (N == 0) {
       return 0;
     return N * N * N + sumOfSeries(N - 1);
  }
// Factorial of N numbers
class Solution {
  static ArrayList<Long> factorialNumbers(long N) {
     // code here
     ArrayList<Long> Is = new ArrayList<>();
     long ind = 1;
     while (true) {
        long fact = f(ind);
       if (fact <= N) {
          ls.add(fact);
          ind++;
       } else {
          break;
     return Is;
  }
  static long f(long a) {
     if (a == 1) {
       return 1;
     return a * f(a - 1);
}
```

```
// Reverse an array
// Check if a string is palindrome or ...
class Solution {
  public boolean isPalindrome(String s) {
     String n = s.toLowerCase();
     int I = n.length();
     return isPal(n, 0, I - 1);
  }
  public boolean isPal(String st, int s, int e) {
     if (s >= e) {
        return true;
     boolean start = checklfAlphanumeric(st.charAt(s));
     boolean end = checkIfAlphanumeric(st.charAt(e));
     if (start == true && end == true) {
        return st.charAt(s) == st.charAt(e) && isPal(st, s + 1, e - 1);
     } else if (start == false && end == false) {
        return isPal(st, s + 1, e - 1):
     } else if (start == false && end == true) {
        return isPal(st, s + 1, e);
        return isPal(st, s, e - 1);
  }
  public boolean checklfAlphanumeric(char character) {
     if ((character >= '0' & character <= '9') || (character >= 'a' && character <= 'z')
           || (character >= 'A' && character <= 'Z')) {
        return true;
     } else {
        return false;
  }
}
// Fibonacci Number
class Solution {
  public int fib(int n) {
     if (n == 0 || n == 1) {
        return n;
     } else {
        return fib(n - 1) + fib(n - 2);
  }
}}
```