// Find the number of Factorion numbers within a Range

Code:

```
import java.util.Scanner;

Public class MainClass {

Public static void main (String [] args) {

    Scanner sc = new Scanner (System.in);

    System.out.print ("Enter the lower bound of the range:");

      int lb = sc.nextInt();

    System.out.print ("Enter the upper bound of the range:");

      int ub = sc.nextInt();

    boolean found = false;

    System.out.println ("Factorion numbers in the range:");

  for ( int i = lb ; i<=ub ; i++ ) {

      ~~if (CheckFactorion isFactorion) {~~

      if (Checkfactorion.isFactorion(i)) {

          System.out.println(i);

          found = true;

      }
```

```
is (!found) {
    System.out.println("No factorion numbers found
    in the given range.");
    }
    sc.close();
}
}

Public class CheckFactorion {
    Public static long fact(int n) {
        long f = 1;
        for (int i = 1; i<n; i++) {
            f *= i;
        }
        return f;
    }

Public static boolean isFactorion(int num){
    int OrgNum = num;
    long sum = 0;
    while (num > 0) {
        int digit = num % 10;
        sum += fact(digit);
    } num /= 10;
```

```
        return sum == OrgNum;
    }
}
```