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A program which checks whether the number entered is automorphic.
      A number is automorphic if it is contained in the last digits of its square.
      Example:
             25 * 25 = 625 ---> 6 2 5
                                  Automorphic!
import java.util.Scanner;
class Automorphic {
      public static void main (String[] args) {
             System.out.print("Enter a number : ");
             int number = (new Scanner(System.in)).nextInt();
             int square = number * number;
             int mask = (int) Math.pow(10, numberOfDigits(number));
             System.out.println((number == (square % mask))
                           ? "Automorphic number!" : "Not an Automorphic number!");
      public static int numberOfDigits (int n) {
             return (n < 10) ? 1 : numberOfDigits(n / 10) + 1;
      }
}
      Variable Description :
      Serial no. | Variable name | Data type | Purpose
       1 | number | int | Stores the number | entered
                                               | Stores the square of | the number entered
              | int
         3 | mask
                                                    | Stores the mask ;
                                                    | divding a number by
                                                    | this gives its last
| few digits
```