Shivya, the mathematics teacher for the 6th grade, assigns her students a task to determine whether a given number is an automorphic number and whether it is a Harshad number.

* An **automorphic number** is a number whose square ends with the same digits as the number itself. For example, 76 is an automorphic number because, the square of 76 is 76\*76=5776 which ends with the 76. So, 76 is an automorphic number.
* A **Harshad number**, also known as a Niven number, is a number that is divisible by the sum of its digits. For example, 18 is a Harshad number because the sum of its digits is 1+8=9 and 18 is divisible by 9.

In the **UserInterface** class, in the main method,

1. Prompt the user to enter a number.
2. If the given number is less than 0, then print "**<number> is an invalid number.Please enter a positive number**" and terminate the program.
3. Otherwise, Check if the number is an automorphic number and print the result.
4. Check if the number is a Harshad number and print the result.

**Note:**

* In the Sample Input / Output provided, the highlighted text in bold corresponds to the input given by the user and the rest of the text represents the output.
* Adhere to the code template, if provided.
* Do not use System.exit(0) to terminate the code.

**Sample Input 1:**

Enter a number

**36**

**Sample Output 1:**

36 is not an automorphic number

36 is an harshad number

**Sample Input 2:**

Enter a number

25

**Sample Output2:**

25 is an automorphic number

25 is not an harshad number

**Sample Input 3:**

Enter a number

6

**Sample Output 3:**

6 is an automorphic number

6 is an harshad number

**Sample Input 4:**

Enter a number

**-2**

**Sample Output 4:**

-2 is an invalid number. Please enter a positive number