AUTOMORPHIC NUMBER: it is an integer whose square ends with the given integer

Eg:

(25)^2 =625

//AUTOMORPHIC NUMBER

//THIS CODE IS WRITTEN BY AYUSH

public class AutomorphicNumber

{

//user-defined static method that checks whether the number is automorphic or not

static boolean isAutomorphic(int num)

{

//determines the square of the specified number

int square = num \* num;

//comparing the digits until the number becomes 0

while (num > 0)

{

//find the remainder (last digit) of the variable num and square and comparing them

if (num % 10 != square % 10)

//returns false if digits are not equal

return false;

//reduce num and square by dividing them by 10

num = num/10;

square = square/10;

}

return true;

}

//Driver code

public static void main(String args[])

{

//number to be check

//calling the method and prints the result accordingly

System.out.println(isAutomorphic(76) ? "Automorphic" : "Not Automorphic");

System.out.println(isAutomorphic(13) ? "Automorphic" : "Not Automorphic");

}

}