**Automorphic Number**

[maths](http://www.practice.geeksforgeeks.org/tag-page.php?tag=maths&isCmp=0)

Write a program to check whether a given number is Automorphic number or not.  
A number is called Automorphic number if and only if its square ends in the same digits as the number itself.

For example, 762 = 57**76**which ends with 76 therefore it is a automorphic number.  
  
**Input:**

The first line of the input contains T denoting the total number of testcases. Each of the next T lines contains a positive integer N denoting the value of a number.

**Output:**

Output "Automorphic" if given number is Automorphic else "Not Automorphic" .

**Constraints:**

1<=T<=100  
1<=N<=1000

**Example:**

Input:  
2  
1  
16

Output:  
Automorphic  
Not Automorphic

\*\*For More Examples Use Expected Output\*\*

#include <iostream>

#include <stdio.h>

#define ll long long int

#include <conio.h>

using namespace std;

int main() {

    int t;

    scanf("%d", &t);

    while(t--) {

        int N;

        scanf("%d",&N);

        int square = N \* N;

        bool es=true;

        while(N > 0) {

           if(square%10 != N%10) {

                es=false;

                break;

            }

           square /=10;

           N/=10;

        }

        if(es) {

            printf("Automorphic**\n**");

        } else{

            printf("Not Automorphic**\n**");

        }

    }

    getch();

    return 0;

}