

Problem39 : Check whether a no. is an automorphic number.

Code :

```
#include <stdio.h>
#include <math.h>

int main() {
    int num, sq, digits, lastPart;

    printf("Enter a number: ");
    scanf("%d", &num);

    sq = num * num;
    digits = 0;
    int temp = num;
    while(temp > 0) {
        digits++;
        temp /= 10;
    }
    int divisor = (int)pow(10, digits);
    lastPart = sq % divisor;
```

```
    if(lastPart == num) {  
        printf("%d is an Automorphic  
Number.\n", num);  
    } else {  
        printf("%d is not an Automorphic  
Number.\n", num);  
    }  
  
    return 0;  
}
```

Output:

25

25 is an Automorphic Number