

# C programming33 for loop

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## 1 Check whether a given number is Automorphic number or not

```
#include <stdio.h>

int main() {
    int num, square, temp, digits = 0, power = 1;

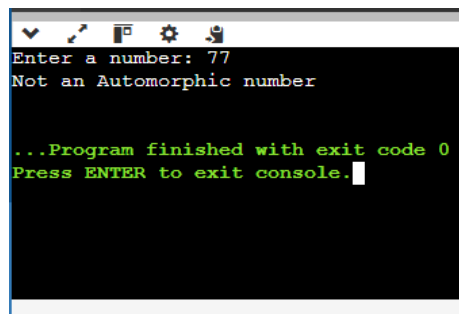
    printf("Enter a number: ");
    scanf("%d", &num);

    square = num * num;
    temp = num;

    while (temp > 0) {
        digits++;
        temp /= 10;
    }

    for (int i = 0; i < digits; i++)
        power *= 10;

    if (square % power == num)
        printf("Automorphic number\n");
    else
        printf("Not an Automorphic number\n");
    return 0;
}
```

A screenshot of a terminal window with a dark background and a light gray title bar. The title bar contains several icons: a downward arrow, a magnifying glass, a square icon, a gear icon, and a person icon. The terminal text is as follows:

```
Enter a number: 77  
Not an Automorphic number  
  
...Program finished with exit code 0  
Press ENTER to exit console.
```

Figure 1: Enter Caption