

5. Armstrong number

```
#include <stdio.h>
int main()
{
    int num,originalNum, remainder, result = 0;
    printf("enter a three digit integer; ");
    scanf("%d",&num);
    original Num = num;
    while (originalNum != 0){
        remainder = originalNum % 10;
        result += remainder * remainder * remainder;
        originalNum /= 10;
    }
    if (result == num)
        printf("%d is an armstrong number",num);
    else
        printf("%d is not an armstrong number",num);
    return 0;
}
```