#include<stdio.h>

int main(){

    int num,r,sum=0,temp;

    printf("Enter a number: ");

    scanf("%d",&num);

    for(temp=num;num!=0;num=num/10){

         r=num%10;

         sum=sum+(r\*r\*r);

    }

    if(sum==temp)

         printf("%d is an Armstrong number",temp);

    else

         printf("%d is not an Armstrong number",temp);

    return 0;

}

Sample output:

Enter a number: 370

370 is an Armstrong number