#include <stdio.h>

#include <math.h>

int main()

{

int number, originalNumber, remainder, result = 0, n = 0 ;

printf("Enter an integer: ");

scanf("%d", &number);

originalNumber = number;

while (originalNumber != 0)

{

originalNumber /= 10;

++n;

}

originalNumber = number;

while (originalNumber != 0)

{

remainder = originalNumber%10;

result += pow(remainder, n);

originalNumber /= 10;

}

if(result == number)

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

else

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

return 0;

}