#include<math.h>

#include<stdio.h>

int main()

{

int num, originalnum, remainder, n = 0, result = 0;

printf("enter an integer: ");

scanf("%d", &num);

originalnum = num;

for(originalnum = num; originalnum !=0; ++n)

{

originalnum /= 10;

}

for(originalnum = num; originalnum != 0; originalnum /= 10)

{

remainder = originalnum %10;

result += pow(remainder, n);

}

if((int) result == num)

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

else

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

return 0;

}

