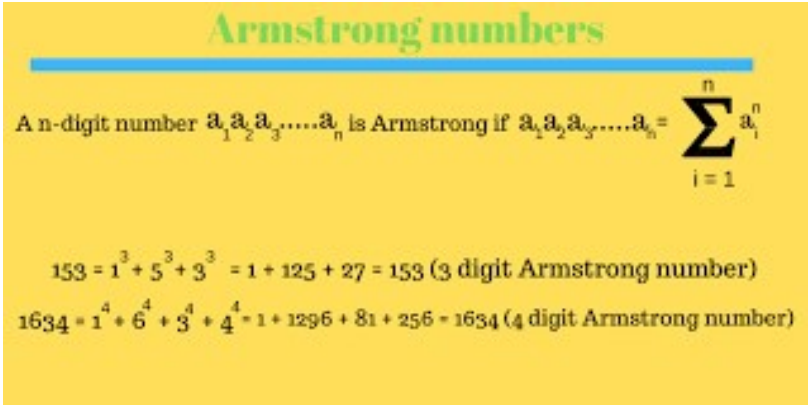
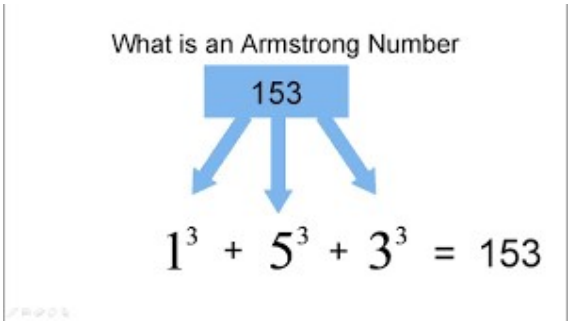
Amstrong Number

- A number is said to be **Armstrong Number** or narcissistic number if it is equal to the sum of its own digits raised to the power of the number of digits.
- Single digit numbers are trivially Armstrong Numbers.





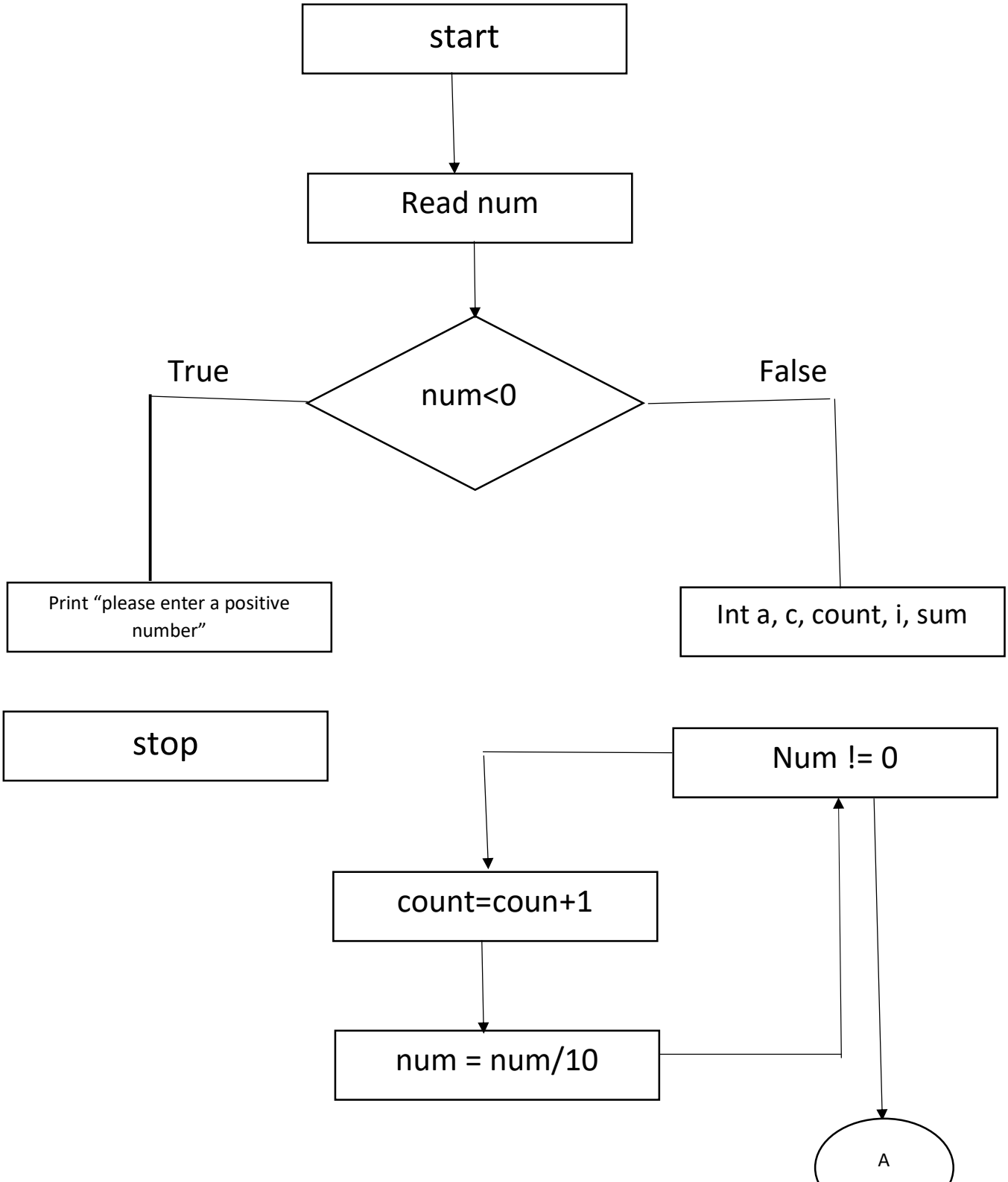
Pseudo code

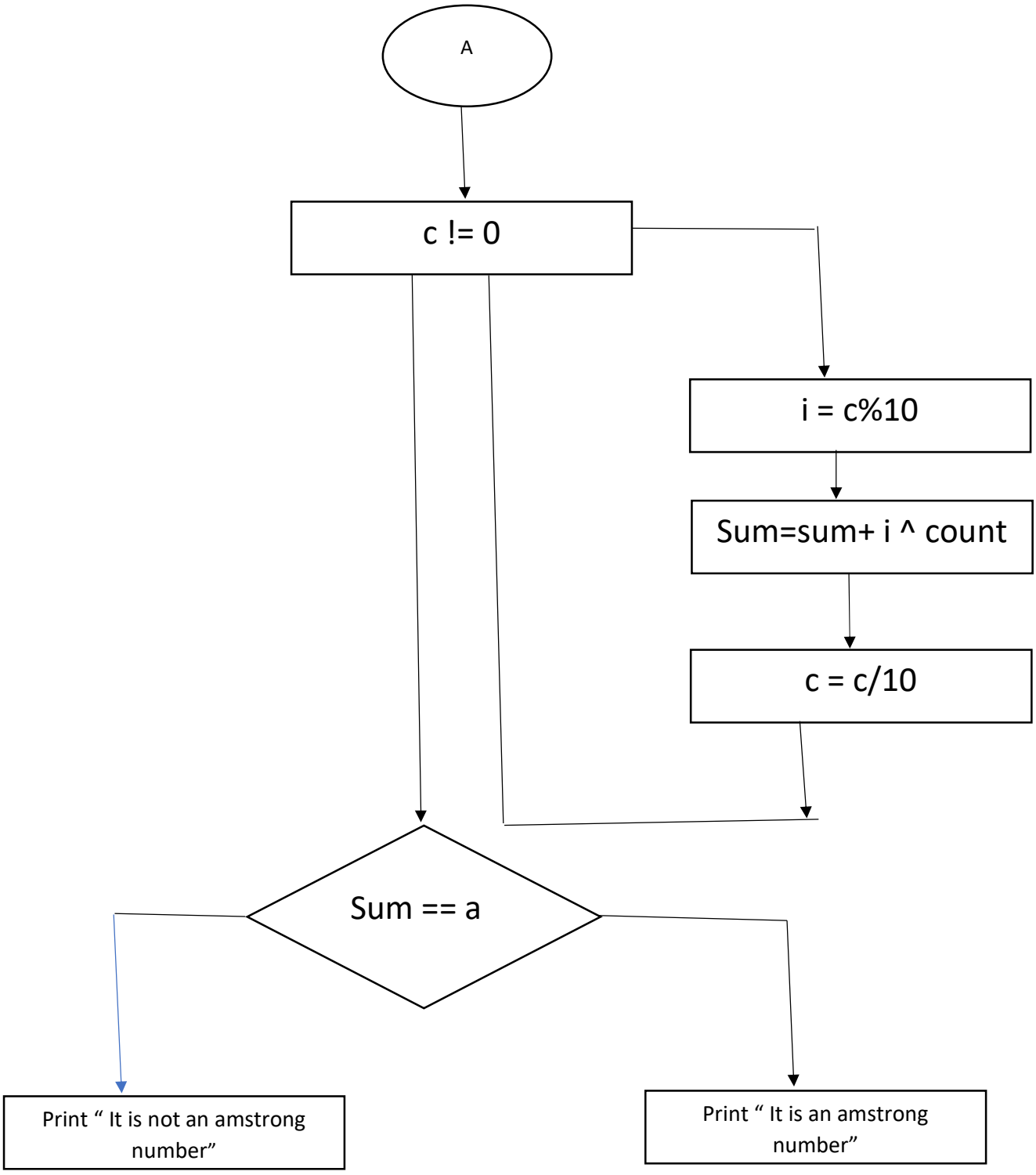
- Start
- Declare num, sum, i, count, a, c
- Read num
- If num<0
    - Print "Number should be positive".

      Else
        - Int a=num, c=num, sum=0, i=0, count=0
        - Repeat until num<>0
            - count=count+1
            - Num=num/10
        - Repeat until c<>0
            - i = c%10
            - sum = sum + I ^ count
            - c = c/10
        - If a = sum
            - Print "is an amstrong number"

              Else
            - Print "is not an amstrong number"
- Stop.

Flowchart


start
Read num
num<0
True
False
Print “please enter a positive number”
Int a, c, count, i, sum
stop
Num != 0
count=coun+1
num = num/10
A


A
c != 0
i = c%10
Sum=sum+ i ^ count
c = c/10
Sum == a
Print “ It is not an amstrong number”
Print “ It is an amstrong number”

Flowgorithm