FLOWCHART FOR ARMSTRONG NUMBER

Main

Armstrong
number:-
ex:- 153=[1*1*1]+[5*5*5]+[3*3*3]

Integer n

Integer sum

Integer num

Integer original

Integer a

Integer x

Output "enter the number of digits in your number"

Input x

Output "enter the number"

Input n

sum = 0

num = n

original = num

num>0 — True

False

a = num MOD 10

sum = sum+(a^x)

num = num/10

sum=original

False — True

Output "sorry " & ToString (original) & " is not an Armstrong number"
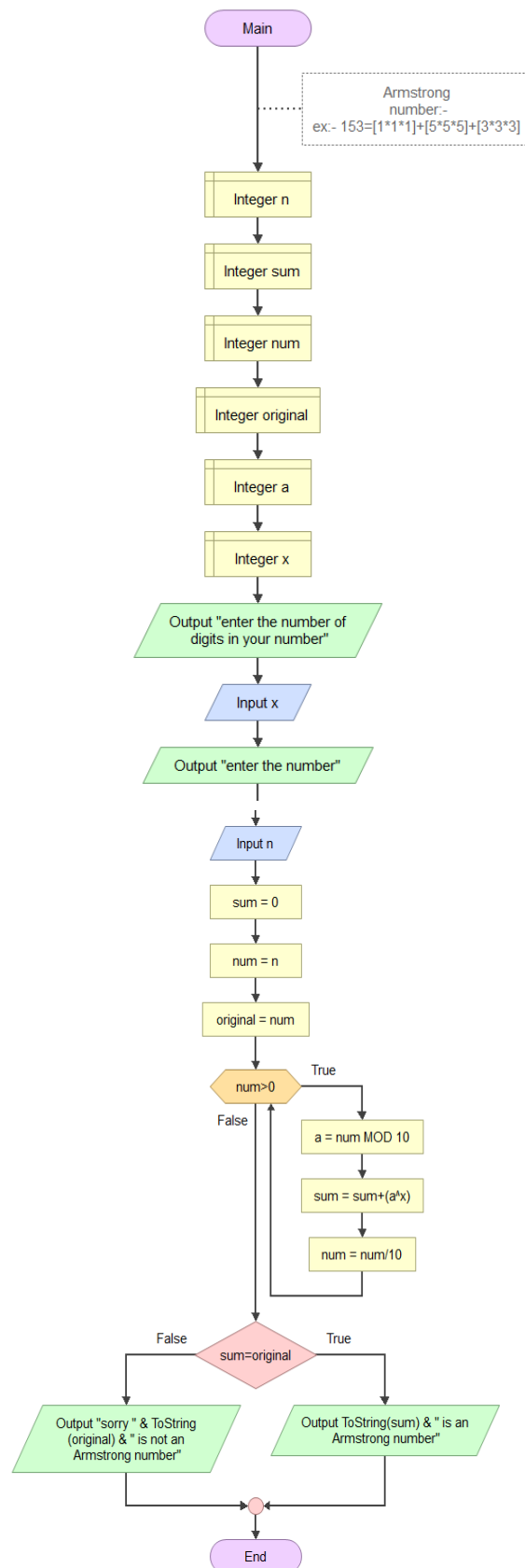
Output ToString(sum) & " is an Armstrong number"

End

PSEUDO CODE FOR ARMSTRONG NUMBER: -

* Read n

* Read x

* Number=n

* Sum=0

* While n>=0

    a = n MOD 10

    sum=sum+[a^x]

    n =n/10

* ENDWHILE

* IF sum==Number

    PRINT "it is an Armstrong number"

  ELSE

    PRINT "sorry it is not an Armstrong number"