Probrem

Define a number is legal if

Dit is a natural number (30, integer)

3 it does not contain the digit anywhere in its base 10 representation

3 It is not divisible by 9

Find how many number in [F. L] is legal.

And Fil do not contain a 9 digit. FIL is not divisible by 9

Solution

Then x=

Define a function f. f(x) means how many number in EO, x3 is legal The answer to this problem is f(L) - f(F)+1.

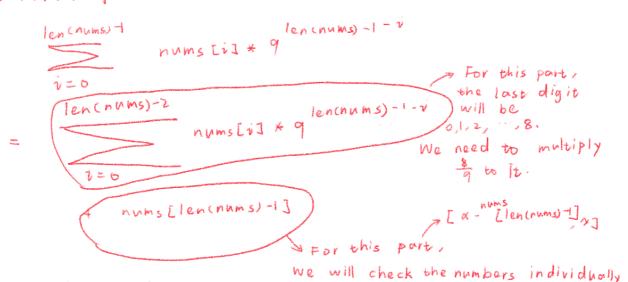
2 How to calculate f(x)?

a) turn a to nums [] example: x = 2018

nums: [2,0,1,8] len(nums)-

len (nums) - | - v numscia * 16

13 The number of numbers in EO, 22 and do not contain digit 9 is.



Example: 2018

$$(2*9^3+0*9^3+1*9)*1$$

2010 / 2011 , 2012 , 2013 , 2014 , 2015 , 2016 , 2017 2018 Test Individually

Reminder

python: 2** 3

C++ : # include < stdio.h> # include < math. h > pow (2/3)

Pon't use this function.

Disable the scientific notation: cout. setfices exfixed, ioserflootfield); code : ipad - 3 . cpp

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