



Find n the special  
number.



**XBITS**

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### The problem:

A number  $n$  is said to be special if the sum of its digits is divisible by 4.

For a given integer  $a$ , find a number  $n$  such that:

- $n$  is a special number
- $n \geq a$
- $n$  is minimum possible

### The Example:

Enter data: 432

The output is: 435 because  $4 + 3 + 5 = 12$  and 12 is divisible by 4

Enter data: 99

The output is: 103 because  $1 + 0 + 3 = 4$  and 4 is divisible by 4

Thanks and best wishes,

Sahraoui mohammed.

Ethical hacker and future security  
researcher **incha allah.**

*Sahraoui Mohammed*