## Sharmeen and binary number

Sharmeen, the little girl learned about binary numbers recently. But she is unable to handle it, if the number becomes large. Her friend Mozahid gave her a task to find the number of set bits in a given binary bumber. As the number can be very large, she can't cope with the solution of this problem. As a programmer, it's your duty to help her.

A binary number is a number which contains only ' 0 ' and ' 1 '. Set bit means the bit which have the value ' 1 '. For example a binary number ' 1011 ' has 3 set bits.

It can contain leading zeros.
Input
Given a large binary number of length n . It can have at most $10^{5}$ digits.

## Output

Output the number of set bits in the binary number.

## Example

Input:
1011

Output:
3

