Question	Answer
A programmer has been asked to write a program that receives two numbers from the user, with the first being the number of sweets in a giant sweet box, and the second being the number of children at a party. The program will then output how many sweets each child will get, plus how many sweets are left over.	
Write an algorithm in pseudocode which completes the above task.	

Question

A programmer has been asked to write a program that receives two numbers from the user, with the first being the number of sweets in a giant sweet box, and the second being the number of children at a party. The program will then output how many sweets each child will get, plus how many sweets are left over.

Write an algorithm in pseudocode which completes the above task.

Answer

There are always different ways to solve a problem. This algorithm is just an example. What is important is that the logic is correct!

LOGIC:

- -Ask the user to enter the number of sweets and store it in a variable
- -Cast the input to an integer data type
- -Ask the user to enter the number of children and store it in a variable
- -Cast the input to an integer data type
- -Divide the first number by the second, using the 'Quotient' division operator DIV, in order to work out each child's share.
- -Divide the first number by the second, using the 'Modulo' division operator MOD, in order to work out if a remainder is produced.
- -Output the results of each division, along with a suitable message.

EXAMPLE ALGORITHM:

```
num1 = input("Enter a number: ")
num1 = int(num1)
num2 = input("Enter another number: ")
num2 = int(num2)
share = num1 DIV num2
remainder = num1 MOD num2
print("Each child gets " + str(share) + "number of sweets, with "
str(remainder) + "left over")
```