**Python - practice number 3**

1. When rolling a game die, it can display a number 1-6. Simulate the roll of the dice by drawing an appropriate random number. If the resulting number is even, write down:otherwise even should be written as odd.
2. In sign series that include a finite number of signs, there is a subsequent sign for each sign except for the last sign. For such series it is customary to define the first sign as "circularly following" the last sign.

Write a program whose input is a letterAZ and its output is the following letter "circularly" and a corresponding message. For an input that is a letter other than Z the output will be the next letter in ABC with the message "next letter". For an input that is Z the output will be the letter A along with the message "back to start".

1. A series of numbers is called an "ascending series" if the value of the first term in the series is less than the value of the second term, the value of the second term is less than the value of the third term, and so on. For example: the series of numbers 10 7 2 1 is a truly ascending series, and the series of numbers 7 3 1 1 is not a truly ascending series (from left to right).

Write a program that receives a series of three integers, and its output is a message as to whether the series of numbers is a truly increasing series.

If the series actually increases, the series of differences between the members of the original series must be attached to the message, that is - the difference between the second and first numbers, and the difference between the third and second numbers.

1. Build a trace table for the program you wrote for question 3, for the input: 10 7 2 (from left to right).



1. Write a program whose input is three characters, and whose output is the next largest character among the characters, if the three characters are consecutive characters and given in ascending order.

For example, for the inputBCD (from left to right) will be the output E, and for the input ACD

The output will be empty (that is, nothing will be displayed, since the characters are not consecutive characters).

Write the next character calculation as an expression in the output statement.

1. Write a program that receives two two-digit positive integers, and its output is a message whether the two numbers consist of the same digits. For example, for the inputs: 91 19, 25 25, the output will be a message that the numbers are made up of the same digits, and for the inputs: 81 19, 57 25, the output will be a message that the numbers are not made up of the same digits.

**Remarks:**

* Assume the input is correct, no need to perform input checks.
* The input and output must be accompanied by text explaining the printed data.
* Variables with meaningful names must be used.

**Successfully!**