

1- Write a Ruby program to create a new string which is n copies of a given string where n is a non-negative integer

a. Sample Output:

- i. a*
- ii. aa*
- iii. aaa*
- iv. aaaa*
- v. aaaaaa*

2- Write a Ruby program to check whether a string starts with "if".

a. Sample Output:

- i. True*
- ii. false*

3- Write a Ruby program to create a new string from a given string where the first and last characters have been exchanged

a. Sample Output:

- i. NythoP*
- ii. aavJ*

4- Write a Ruby program to create a new string from a given string with the last character added at the front and back of the given string. The length of the given string must be 1 or more.

a. Sample Output:

- i. cabcc*
- ii. dabcedd*
- iii. ajavaa*

5- Write a Ruby program to test whether a year is leap year or not.

a. Sample Output:

- i. 2012 is leap year*
- ii. 1500 is not leap year*
- iii. 1600 is leap year*
- iv. 2020 is leap year*

6- Write a Ruby program to create an array with the elements "rotated left" of a given array of integers length 3.

a. Sample Output:

- i. [2, 5, 1]*
- ii. [2, 3, 1]*
- iii. [2, 4, 1]*

7- Write a Ruby program to compute the sum of the numbers of a given array except the number 17 and numbers that come immediately after a 17. Return 0 for an empty array.

a. *Sample input*

i. [3, 5, 17, 6]

ii. [3, 5, 1, 17]

iii. [3, 17, 1, 7]

b. *Sample Output:*

i. [2, 5, 1]

ii. [2, 3, 1]

iii. [2, 4, 1]

8- <https://leetcode.com/problems/two-sum/> [bonus]

9- <https://www.hackerrank.com/challenges/balanced-brackets/problem> [bonus]

10- <https://leetcode.com/problems/count-common-words-with-one-occurrence/>
hint => use hash table [bonus]