

homework

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1. Repeating Letters

Create a function that takes a string and returns a string in which each character is repeated once.

Examples

```
doubleChar("String") → "SSttrriinnngg"

doubleChar("Hello World!") → "HHeeellllloo WWoorrrllldd!!"

doubleChar("1234!_ ") → "11223344!!__ "
```

2. Check If It's a Title String

Check if a string `title` is a title string or not. A title string is one which has all the words in the string start with a upper case letter.

Examples

```
checkTitle("A Mind Boggling Achievement") → true

checkTitle("A Simple Java Script Program!") → true

checkTitle("Water is transparent") → false
```

4. Bilmasvoy matematikada

(a^c * b^d)^{c+d}

Bilmasvoy matematikaga qiziqib qoldi. Misollar ishlashni ham boshladi. Lekin (a^c * b^d)^{c+d} ni hisoblashda biroz qiynalyapti. Siz bu ifodani hisoblashda Bilmasvoyga yordam bering.

Kiruvchi ma'lumotlar:

Sizga yagona qatorda a, b, c, d natural sonlari beriladi ($1 \leq a, b \leq 1018, 1 \leq c, d \leq 10\,500\,000$).

Chiquvchi ma'lumotlar:

Ifoda qiymatining 10^9+7 ga bo'lgandagi qoldiqni chop eting!

Misollar

#	input	output
1	1 1 1 1	1

5. Find the Largest Even Number

| Write a function that finds the largest number in an array `nums` that is also even. If there is no even number, return `-1`.

| Eng katta juft sonni qaytaradigan function yarating u array qabul qilsin.

Examples

```
largestEven([3, 7, 2, 1, 7, 9, 10, 13]) → 10
```

```
largestEven([1, 3, 5, 7]) → -1
```

```
largestEven([0, 19, 18973623]) → 0
```

BONUS

1. Minimum Remove to Make Valid Parentheses

| Given a string `s` of `'('` , `)'` and lowercase English characters.

| Your task is to remove the minimum number of parentheses (`'('` or `)'`, in any positions) so that the resulting parentheses string is valid and return any valid string.

Formally, a parentheses string is valid if and only if:

- It is the empty string, contains only lowercase characters, or
- It can be written as `AB` (`A` concatenated with `B`), where `A` and `B` are valid strings, or
- It can be written as `(A)`, where `A` is a valid string.

Example 1:

Input: `s = "lee(t(c)o)de"` Output: `"lee(t(c)o)de"` Explanation: `"lee(t(co)de)"` , `"lee(t(c)ode)"` would also be accepted.

Example 2:

Input: `s = "a)b(c)d"` Output: `"ab(c)d"`

Example 3:

Input: `s = "")` Output: `""` Explanation: An empty string is also valid.