

12-dars. JS massivlar va massiv metodlari (for, for...of, for...in, forEach, map va filter, every va some, reduce va reduceRight, find, sort, ...)

HOME WORK

12-dars. JS massivlar va massiv metodlari (for, for...of, for...in, forEach, map va filter, every va some, reduce va reduceRight, find, sort, ...)

1. Number Split | Sonni qismga ajratish

| *Given a number, return an array containing the two halves of the number. If the number is odd, make the **rightmost number higher**.*

| *function yarating u number qabul qilsin va uni ikki bo'lakga bo'lsin shu bo'laklarni bir biriga qo'shganda yi'g'indi berilgan number bilan bir hil bo'lsin. Agarda raqamlar juftva toqqa ajrasa kattasi o'ng tomonda kelsin*

Examples

```
numberSplit(4) → [2, 2]

numberSplit(10) → [5, 5]

numberSplit(11) → [5, 6]

numberSplit(-9) → [-5, -4]
```

2. Sum of Cubes

| *Create a function that takes in an array of numbers and returns the sum of its cubes.*

| *Function yarating u Array qiymati qabul qilsin va arrayning har bir elementini cublarini yig'indisini qaytarsin!.*

Examples

```
sumOfCubes([1, 5, 9]) → 855
// Since 1^3 + 5^3 + 9^3 = 1 + 125 + 729 = 855

sumOfCubes([3, 4, 5]) → 216

sumOfCubes([2]) → 8

sumOfCubes([]) → 0
```

3. Find the Smallest and Biggest Numbers

Create a function that takes an array of numbers and return both the minimum and maximum numbers, in that order.

| *Function yarating u Array ([]) qabul qilsin. function eng kichik va eng katta qiymatini array ichida qaytarsin. [kichik, katta]*

Examples

```
minMax([1, 2, 3, 4, 5]) → [1, 5]
```

```
minMax([2334454, 5]) → [5, 2334454]
```

4. Birinchi tub son

| *Function yarating u Array ([]) qabul qilsin. Birinchi uchragan toq sonni qaytaradigan algorithm yozing!*

Note

- 2 ga bo'lganda qoldiq qolsa u toq son!

```
findPrimeNumber([1, 4, 9, 12, 3]) → 9  
findPrimeNumber([123, 42, 93, 21, 11]) → 123
```

5. | *Function yarating u array qabul qilsin ichida ikkita element bo'ladi holos [num1, num2]. function num1* num2 = qiymatini to'paytma belgisidan foydalanmasdan chiqaradigan algorithm yozing!*

==Ko'paytma ishlatmasdan bajaring! ==

```
func([3,4]) //=> 12  
func([2,4]) //=> 8
```

6. | *Funtion yarating u array qabul qilsin array ichida so'zlar berilgan. So'zlardan faqat kichik harfli unlilarni qaytaradigan algorithm tuzing!*

```
returnVowel(["Assalomu a'laykum", "salom", "Najot ta'lim"])//=> ['aaouaa', 'ao', 'aoai']  
returnVowel(["Toshkent"])//=> ['oe']
```

7. Phone Number Formatting

| *Create a function that takes an array of 10 numbers (between 0 and 9) and returns a string of those numbers formatted as a phone number (e.g. (555) 555-5555).*

| *Function yarating u uzunligi 10ga teng bo'lgan array qabul qilsin (0,9 oralig'ida) va telefon number formatida qaytarsin!.*

Examples

```
formatPhoneNumber([1, 2, 3, 4, 5, 6, 7, 8, 9, 0]) → "(123) 456-7890"  
  
formatPhoneNumber([5, 1, 9, 5, 5, 5, 4, 4, 6, 8]) → "(519) 555-4468"  
  
formatPhoneNumber([3, 4, 5, 5, 0, 1, 2, 5, 2, 7]) → "(345) 501-2527"
```

8. Spelling it Out

Create a function which takes in a word and spells it out, by consecutively adding letters until the full word is completed.

| *To'liq so'z tugaguncha ketma-ket harflarni qo'shib, so'zni qabul qiladigan va yozadigan funksiya yarating.*

Examples

```
spelling("bee") → ["b", "be", "bee"]
spelling("happy") → ["h", "ha", "hap", "happ", "happy"]
spelling("eagerly") → ["e", "ea", "eag", "eage", "eager", "eagerl", "eagerly"]
```

9. Chat Room Status

| *Write a function that returns the number of users in a chatroom based on the following rules:*

| *Quyidagi qoidalar asosida chatdagi foydalanuvchilar sonini qaytaruvchi funksiyani yozing.*

1. If there is no one, return "no one online".
2. If there is 1 person, return "user1 online".
3. If there are 2 people, return "user1 and user2 online".
4. If there are `n>2` people, return the first two names and add "and n-2 more online".
5. Hech kim bo'lmasa, "onlayn hech kim"ni qaytaring.
6. Agar 1 kishi bo'lsa, "user1 online"ni qaytaring.
7. Agar 2 kishi bo'lsa, "user1 va user2 online"ni qaytaring.
8. Agar `n>2` kishi bo'lsa, dastlabki ikkita ismni qaytaring va `"va yana n-2 onlayn" qo'shing.

For example, if there are 5 users, return:

```
"user1, user2 and 3 more online"
```

Examples

```
chatroomStatus([]) → "no one online"
chatroomStatus(["paRIE_to"]) → "paRIE_to online"
chatroomStatus(["s234f", "mailbox2"]) → "s234f and mailbox2 online"
chatroomStatus(["pap_ier44", "townieBOY", "panda321", "motor_bike5", "sandwichmaker833", "violinist91"]) → "pap_ier44, townieBOY and 4 more online"
```

10. How Much is True?

| *Create a function which returns the number of `true` values there are in an array.*

| *Massivdagi `true` qiymatlar sonini qaytaruvchi funksiya yarating.*

Examples

```
countTrue([true, false, false, true, false]) → 2
countTrue([false, false, false, false]) → 0
```

```
countTrue([]) → 0
```

BONUS

1. | *Function yarating u array qabul qilsin va tub sonlarni qaytarsin!>*
2. | *Function yarating u array qabul qilsin va yana bitta function qaytarsin (recursion bu) ichki function number qabul qilsin va birinchi functionda kiritilgan qiymatlarni har birini shu songa ko'paytirib array shaklida qaytarsin*

Examples

```
multiply([1, 2, 3])(2) → [2, 4, 6]
```

```
multiply([4, 6, 5])(10) → [40, 60, 50]
```

```
multiply([1, 2, 3])(0) → [0, 0, 0]
```

3. | *"[0, n]" oralig'ida "n" farqli raqamlarni o'z ichiga olgan "raqamlar" massivi berilgan bo'lsa, massivda bo'lmagan oraliqdagi yagona raqamni qaytaring.*

Input: nums = [3,0,1] **Output:** 2

Input: nums = [9,6,4,2,3,5,7,0,1] **Output:** 8