Ko’rinish doirasi va tutashish (Scope, Execution Context, Closure) HOMEWORK

HOME WORK

1. *Closure function yarating u butun sonlar (n)(m) qabul qilsin (n > 0, m > 0). 1 dan n gacha bo'lgan sonlarning m chi darajasidagi sonlar yig'indisini hisoblang!*

```
/*
1^m + 2^m + 3^m ... n^m
*/
calc(3)(2) /=> 1^2 + 2^2 + 3^2 =
```

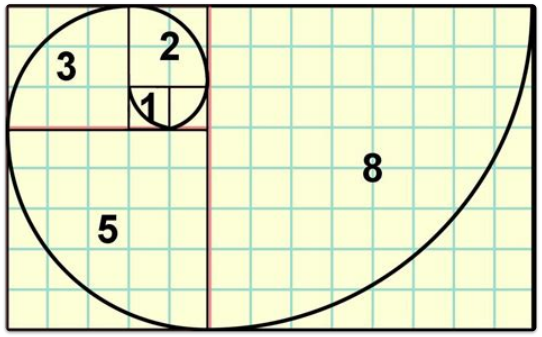
2. *Closure function yarating ular butun sonlar (n)(m) qabul qilsin (n > 0, m > 0) shu hola n dan m gacha bo'lgan sonlar ichidagi o'ziga va birga bo'linadigan tub sonlar yi'g'indisini yarating*

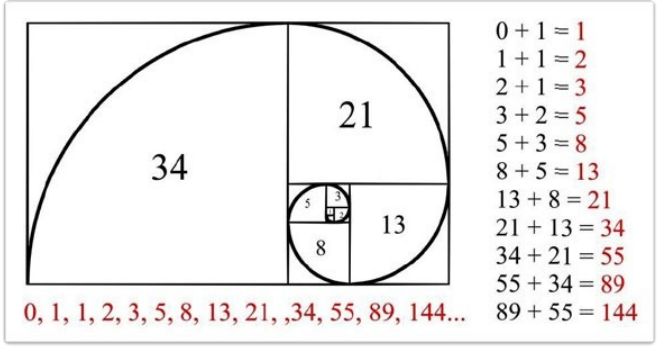
```
calc(1)(10) /=> 1 + 2 + 3 + 5 + 7
```

3. *Closure function yarating ular string typedagi ma'lumot qabul qilsin (str1)(str2) qabul qilsin m va n dagi harflar bir biroda bormi shuni hisoblaydigan dastur tuzing*

```
isEqual("abc")("bac") /=> true
isEqual("apple")("elppa") /=> true
isEqual("abcde")("abode") /=> false
// harflar bir birida bo'lishi kerak biroda bor biroda yo'q so'zlarda hato berishi kerak!.
```

4. > *Recursive function bilan fibonacci algorithimni tuzing. function butun Number typedafi parametr qabul qilsin(n).*





5. > *Closure function yarating ular massiv va butun son (n)(m) qabul qilsin (n = [], m > 0) shu hola n massivning ichidagi elementlarni ichida m soniga yaqin bo'lgan sonni topadigan algorithm tuzing!.*

```
func([16,8,2,1,5,9,3],6) //=> 5
func([1,12,32,2,10,5,4],30) //=> 32
```

> **Note**
>
> Buni o'z ustida ishlamoqchi bo'lganlar ishlasa bo'ladi majburiy emas ammo bonus bal qo'shiladi!.

Bonus **(Buni o'z ustida ishlamoqchi bo'lganlar ishlasa bo'ladi majburiy emas ammo bonus bal qo'shiladi!.)**

> *Magic deb nomlangan object yarating uning replace, length, toUpperCase methodlari bo'lsin va shu methodlar o'z nomidek ish bajarsin!.*

example

```
const magic = {
        replace(a, b){
        ...
        },
        length(data){
        //har qanday data bersak ham uni uzunligini qaytarsin
        },
        toUpperCase(str){
        /*stringni Katta harflar bilan yozadigan qilsin buni o'ziz yozib chiqing tayyor codedan yoki string
methotidan foydalanman
 obj = {
        "a":"A"
        ...
        }
*/
        },
        repeat(data, n){
        /*
        data qanday bo'lsa ham n marotaba ko'paytirib qaytarsin
repeat("salom",2) ⇒ "salom salom"
*/
                }
        count(str){
// strda har bir harf necha marotabadan takrorlanganini hisoblaydigan algorithm tuzing!
//count("hello world") ⇒ {h:1, e:1, l:3, o:2, ... }
        }
}
```