

```
Reverse
                                                   let Str = tamil got . La
   Unique Number
                                                    let vev= 1
   arr , [1, ....]
                             } ] be and dieth and
d let arric[]
                                                   for ( = str. length - 1 ; 12=0; 1-)
  for (i=0; icarr, length; it+)
     let is Unique = true
                                                          rev+= Str [i]
    for ( J= 0; j < arr, length; j+) {
                                                       of Elel out of town, then
       max/min
         Is Unique = false
                                                         larget = - Infinity
      if ( is Unique) & f
                                                    let Smallet = Infinity
        arrs-push Carreiz
                                                   for ( i=0; iz arr. length; i+1) {
                                                       if Carreiz Llargest ) &
   c. log (arr I)
                                                         largest= arr [i]
T Prime Number
                                                        else if Carreizes mallest)s
   let arrs [1,3....]
                                                          Smalles + sarr [i]
  function istrime(num) {
      if (num <= 1) {
                                                   C.18 (lagget, Smallert)
       2 return Palse
                                                  2'Largest
      for (1=2; inil=num; i++){
                                                             otios with to
                                                   let largest = - Infinity
          if (num % i == 0) {
                                                   let Second Layer = - In Finity
             return false
                                                   for (i=o; icarr.leyth; 1++) {
       2 return true
                                                        if (arr [ i] > langest) {
                                                           largest = second Largest
   for (let iso; icarr.length; i+) {
                                                     Second Larget = a WEi ]
       if (isPrime Carr [i]) &
                                                    · 1 delse if Carr Ei I & secondlayer & and
          2 Colog (arr Ei =)
                                                    Secondlangut sarrliz
                                                    C.1-8 ( second Laguet)
  Even remove
                                                Deep copy
  arr=[ .... 7
 for Ci=o; izarr.length; i+){
                                                 and = 150 N. parse (150N-Shing ify Card)
     if (arrEi]1.2 == 0){
                                                                        MATH
                                                 ARRAYMETHOD
                                                                        ceil CXD - YOU next Loy
         arr.splice(1,1)
                                               ans Peub (4) - add Lout
                                                                        floor (w- row Smaller W
                                                                        round ld - meaut
                                                .POPC) - remove last
                     december of sort strip any
                                                                        trunc (a) - remove Arachin
                                                · Shift() - remove 14
                        arr. sort ((a,b) = 7a. local (ompae(b)) unshift() - add 1st
 1.68 (arr)
                                                                        random()-random wis
                                                · Concat (Ei's) - Soin
                                                                        Sant (x) - Squeeto
          (start, end)

the 2, halms remove -ve last value rouse
                                                                         abs (x) -absolute (romet)
                                                 - JOIN ([ 2]) - insula
  SPIRCE - Spice (1,1,33) (Start, delete, iten, iten)
                                                                         Chr+ as - cube now
                                                · last Index Of (1) - refoun
                                                                           E - Eller's nuss
                                                 · Indenot (11) - return
```

POWEX, 2) - Power of 2

```
const myPromsesnew Promise (1785, rej)=78
call, apply, bind
                                                     const successed and 30 party of the const successed
function great (country) {
   tion great (country)?
c.19 ( name: $ {4 his. nam}, age ; $ this.agg, $ foutry)
                                                         res (rependion sucue)
 Const parson = { have : Joe', a ge : 23}
                                                          rej C'oparation Anilado
greet.call (person, india') greet.call (pason, [india])
                                                                      Chandles (1000) toace
                                                   my provisa
                                                    , then ( marsay) => {
const bindmethod = greet bind (person, India)
                                                      citos (mecsage) 3)
                                                     · coutch (lerror) >> {
Colog(bird method) a solg 2 balls that
                                                      3) L. Wy Cerron
                                                 Doyne-await
Empty
Object . values (obj) . length === 0
                                                  function First Promisely Carry and Mass
                                                    return new promise ((res, rej) = 72
Manipulation
                             methods
 Obj. Dame Hread
                              Objet keys (0) - te, 1, my
                                                      Tesc'suces's
                              Object - Value (16) - Wall 1 - can
  obi-age= 22 1 upale
                              Object - entire (65) - eyes
  Obj - County = 'India Hereute
                                                    async function display() {
                              Object assists (obj, floby how)
 delete objage ildelete
                              Object . Freezely - Immulate
Object . seal (06) - x delete
x and
v parte
                                                         court you = await first providel)
                                                           c. log (we) CHAND - HORNOUSE) STANON
Optional-dely
                                                         I coutch Cerrords
                                                           3 c. los como cosamast
const phot addres ? contrite non
Obj double
                            Swap keyval
06; {01,6:2,6:3}
                                                  Promise-race
                            Swap= 22
                                                   const promised = new Provise (cres, rej) => {
for (let x in obs ) s
                             for ( let x in obj ) {
                                                        3) resolve (1 pr sucus)
      06j[x] *= 2
                               Swap Loss [x]]=*
         · map (Ency, w/3)=>
                                                     Coust promise : promise . race ([promise x promise)
                        (I) Exey, WI = [va] kg
                                                      3 (= ( surgous) => }
                                                         C. log (respons
Looget are object
                                                      · catch ( (errors =) &
                                                       2)
                                                                            (appl was) slaw
'cagut Object = " !
                                                                                 (muz) 20/1)
if Clargert Object => 11 arr Eiz.age > largert object age)
                                                   Promise aithendic
  & larget Object = are: ]
                                                    function add (a, b) &
                                                       return new Provise (1 respress) = 78
   c.101 (10/4 + 2) (1)
                                                           if (allb === 0) [
                                                               resi Chammer Anised's
 Sum of nobject or
                                                            resolve (a+ )
   6bj= {a: 2b:1,c:23, d:33
                                                                                 · then (res) => 9
                                                                                    city (nes)
 let Sum=0
                                                                     18 erras
                                                     add (0,0)
 for (let key in obj) { .... ) James ) so blists
                                                                     ( ) 60 ( Dep. 1004 () 601.)
    if (type of obj tice y = = inums of )?
                                                   Curring
                                                  Const add = a => b => c => a+b+c
         Sum + Obj [Key] Das - hill
                                                   fundion add (a) (3) (3)
      for (let nested in obj [rey]) {
      if (type of obj [key] [nestedkay]== hubor)}
                                                     fundion add (a) {
                                                           vetum function 6) 2
         Sum+ = obj [Key] [nested key]
                                                             veta further cer E repen as se
```

```
function display () {
      call back was well w
    function displayming () {
                                                         val num 1=10
        c. log ( How as you')
                                                         Vau nu 2 = 20
     function great (name, cb) {
                                                        function show () {
                                                           let sum = suitsui2
          cola ('hello' + nane)
        2 (60)
                                                           c.lug (sum)
                                                         return sun
      greet ('Boss', display Msg)
                                 (Elgelma) pla
     function display (sum) {
                               181 raved) Notice
                                                         Court caledisplay ()
        & colog (sum)
                                                          call)
      function add (ab) callback)
                                                       Hoisting
                                                        C. log (a) and find dignal (do)
          let Sum =a+b
          call back (sum) remains and to
                                                         let a= 10
     add (1, 4 display)
                                                         c. log (a)
     while loop
                                                       ternay
  f let nun = [1, 2, 3, 4, 5]
                                                        nun of
                                                         resut = num 1.2 = 0? Even' : odd
      let sum = 0
                                                          ety Person (vesult)
      let :=0
      while (iznumber - length) {
                                                       factory funtion
          Sum t=nun [1];
                                                       function factory (none, place) {
                                                            retiens
                                                                 nane; nave,
       colog (sun
                                                                  Places place,
                                                               gree +UE
                                                      reties ' mane : $ Ethis mady ha
     nun = [1,2,3,1,5]
     Sum = 0
                                                        comit was = factory ('see', 'lowdon')
  Coi = 0 almong Dave
                                                     City ( ugar , great(1)
       Sum +=nwas [1]
                                                       Set Interval
                                                       cout interval = Set In to val (12) {
       while (ic our leg &)
                                                              C.105 ( 'hey' 3)
      c.log (sus)
                                                           3,2000
                                                         setTiment (()=>{
    generator funtion
                                                            clear Interal (interal)
                             termetion add to be
                                                          (000F, 2
     function * number 1) }
        Yield 1,
                                                       child Process
        Yield 2,
                                                        Com+ Efork3 = require (child - Procus'
         Tield 3,
                                                        come child = fork ('child') = )
      coult gen = nubaken U
                                      (0,0) lab
                                                        child on ( margh, (murg) => }
      colog (genonext O. value)
1.16
                                                           &) Colog Courge from child: $ Energy!
       Colog (genone x+1). value)
SI
                                                         child . Send ("pased say, his box)
SI
       Cilox Crem ment W. vale
                                                        chid
                                                         Procession (margos (margo => E
       color (guinesto, dal)
                                                            3) colof (marge from part : {9 mily
                                                         Proces see Cchild any yet broom
```

Closure

```
ntml server
                                                 middle ware
  reguire http
                                                  er reg expend
  com serva = http-crecteserum ((reg, res)=75
                                                     opposerpresso that the second a second
          res. writec'hir
           res. ed ()
                                                  Court middlewas = funtion (regires inex+) &
          2). listen (2000) -) smalled tring de
                                                        Colog ( middle was 1);
                                                        next ()
                                                  app. we (middleway) that the & 1 quotet 3)
  " const now = req oquery . none
                             2 nous = ... 22 ages 22
                                                    arppigue", ----
   res, send ('sanara')
  const nums = parse Int (reg . quy nums)
     cout nu 2 = porte Ent (regique y inus)
                                                 Et ror Chaillegt i yerave, Mid bi - 5 goog & 33
     could sun = nuns + nunz
                                                   app. ga ("1" , Cres ires, un) & &
      if ( is New Cours ) Il is New Cours ) }
                                                     2) Mart Chem Error ( this is Error middles mis)
          resistend ("validnusery
                                                                Cf 15 ( 1257 ) Laura Cran - 10
                                                   app. we (len, rog, ros, wext) >> &
          res. send C'sum squists
                                                    C. eg Cerr. Stuck
                           ? nums=3 & & num=4
                                                    ves . Stalm (404) sed ( "Page not food). listen
  · resisend (reg. quay) quasting Regge 2 18job sdelm
                                                   Router hadley
    app. get ( V: name 100, (reg, res) => }
                                                   court routes = express. Roules ()
       Court now = req - pas on - none
                                                    To when . WE (crop , red, next) => }
       res. send ( nan: $ grand)
                                                       2) elly ('rown to some')
      app-get ('1: duck', (- way)
                                                    mouth get (11, (regime) > ?
         cout cour = reg. peran. cleck
                                                         resised ( routs middlewed)
         const current_id = profile[cuest]
                                                      app. we (1/10 du 1, 20 das)
         res-send (countries)
                                                        app. lie w (200)
  Event Emittes designations
                                                   morgan Papar s balances &
                                                    court morgan = require ('morgan')
  const events = require (revents)
                                                     app. we (morgon ('dou' ))
   court emitter = new events : EventEmittel
   emittur on C'blick', 0=> 8 ( 1002 } com )
                                                                        figestant f
                                                        .. res. sw (heru's
                                                      app. lister (too) also rulto war a crown
           c. l of C'blick succes Rly ));
    A) leading month mandendar stone
                                                   follog logs and beg 1 blathand
  emillar. emit ('blick')
                                                                      MATERY: WETHER
                                                   const content , Hai'
                 Cally 1 Lagor 9 Follog $ 3 . 872
                                                   As. write tile ('my.txt', routes, cerv) => {
  Date
                                                        if Cerrs &
  com+ path = require ('path')
  court fs = require ('fs')
                                                      db- except of the frames frames to
  court today = new Datel). to Strigo
                                                 Promot dosa = fs. readfilesync ('now. ext', 'enf-8')
   court filepole = path. join ( and innex , suple + + 1)
                                                     c. log C'file Couled : ; date
   fs. writetile (flepeth, today, lend =79
                                                    catch
                                                     Cipconon) 21d3, mouseb 3183) -4
        colof (em) 3 - 17:4 share
       if Cerry &
                                                  PS-copy File ( 'now . tat', copy. + st', 1ex)
     2 5 return Ma mar 103 - 3 - 3 - 5 - 13
URL PUS
                                                  fs. us lin K (' how that', to) => { if cerr) } en -.
const un = regire ('un1')
                                                  truncate-lonsentialite and alla inst
court result: url. passe ( http://)
                                                   as items care l'matile. Andi, blas [ il
  ( les ( result)
```

Ename: { \$ regex! nt', soptions: '93 1st relien Ename = & \$ resex : / = + # 83 Lother \$ Sum (Eggroup: & -id: hull, surs: &ssum: sprice 399 gava (E \$ group: & - id inull, average: E davg : \$price's \$ Count - olb - user . count (fage: 25 3) · db . cesas . (out Do ands (Eprice = } sexists : + + ces 33) · ((\$\$ group: \{ -id ! null, coul : \{ \$ sum : 18 } \$inc {\$inc: {age: 5} f Binc: {age: - 5}} U Psest (2-1d:13, {\$ \$50 } { naw : Alice , age: 3 of 3, Eupseal: true 3 \$ Unwind & sunwind : sage 3 \$ lookup (closh) my man) +w,99 2 \$100Kup; { from : name other collection, localfield: 'Field from curul position, foreign Field: 'Field from other Collection' as; " ouput array now) sold all & capped collection ab. create Collection Grave, Ecoppeditive, Size : 1024" 1024 Max : 1000 2) Srename Casis drenam: ¿price: cost 50

o db. collectionnais. renaise Collection ('newwww)

{ Dow! ' newlooked on nave }

\$ add To Set ({ n ano : " Alice's , & d add To Set : Elect. & bulkwrite db. product . bulkwrite (E Multiple & I Matours ' documed': 2 'naw: Laptop' " pure" : 1200, 2 upateous · film': { now! : laptop 3, 'upolalo': { \$ sat : { price : Noge Supolaterray . . del etemis film: \$ ' noe : 'old Laptop's (Car , 191) , 006 20 Sex pr 2001 - 200 209 - 23 db. product . fiel ([Fox pri & Swang & I wan Ast: ['Aparee', 19d:scouldPrie'] CE gadget recy name felon Mach > { Product 1 Laphop, (milted glate quality: 2354:22 (2 m 6, 24 set , 2 project : [383) C&2, E&pub: { project: { teach: [pi, p remove (13, 24 pull= { project } p3 \$ 1) Stacet aggregare 2 stoce 1: } total Products : I Ed cout : 'total's Fire publication of the police averge Prile 2 [Estanon : { -id : null and = averge Price 3 [avg 250

```
Dolex
   . Single field index
      db. collection . create I notex ( frame: 13)
                      . Find ( Enancisory
   compound index
       db. collection - create Index (& name : 1, age: -1)
     Multikey index
                                     nacion', ageiso
       db. collection . create Index ( ftags: 13)
                                    + age . moyelb
       Text index
       db. collection. create Index (Edecription i texts)
                                   Estart : Essearch : some
     Hayhed index
       ab. Collection . (reate Index (fever-id: hashedy)
                                        2-id = hashelf
   - acceptation 2D index
     db. collection. create Index (& location: 20'1).
                                 1010400 = { 40000 [50,50] }
  · acospatial 20sphere
    db. Collection - create Index (& location : edspludy)
                           lacotion : Excellatithin : Excenta Splut
                                          [[50, 403,10/34 2][
              index
     TIL
      db. collection. creditades ( Edate: 13, gexpire After Seconds: 6003),
aspreper
   2 $ match = { add ress. city " = "baylore"
                405:2015
    2 $ 5 roup - 2 - id: nul, augustaluyi & paus i's salay 23)
     Delete
     db-collection debte One (frame "use (f))
        of -collection drop ()
       & 'Acld': 9 | BERISTS ! I Cho plean > 25
    & exist
    $ limit
      9 $ limit : comes 47 }
     9 sort
     db-pollection fint D. sort
   db. collection aggry det & $sort = {salay :- 13},
                                 E Alimitals
```

Promise for const fs = require Cad . promise Ps. rafforfile ('somple +4', inf8) osun((duta) 275 w colog (das) and (cerr)=18 wells (err)

Promise greaty

function at Ca,60% return new Promise (Cras, rajo => { if Carbos 3 33 C' Promise tojectie, \$ 285 not grade this \$ 123 TOS (provise rosolved, \$ fat goda thes \$ 86 5') 0 + Ca, ch then (mes qu') 2 8) - Coulch (ceros) ? Color Cerrs agricourant ostne function handle Pro (e, 6) { court results await gt (a, 6) 3 catch (err) 2 & C. log (erc) bandia AO (312)

Map

My Map = new Map () my Map. set (nam! 'Alice') mym-get ('nai) My Map. bu (roune) my May, delete ("nal') what.cleal1

rest

function sum (... ruber) & return number-reduce (Ctotal, nun) = Hota + nun,) e.10% (sum (1, 2, 3, 4))