Thend Duney.

Step 1: Start

step 1: Start

Step 2: Read the Swe of the flesh amay [scoot ("xd", en

step 3: Read element of flest array in Societ Cades.

[prot ("In ende the start elements of

amay 1: \no. 1; for (10) 1 km; 1+1)

scoot ("M", Railin);]

step 5 : Read the Size of the Second among Ins

step 6 : Read the elowed of first second among

in sexted oxider

step 16 : Repeat step 8 and 9 while Prim & IKD

Catalle (IKMXKOU)

step 8 : check if airij and atiti atiti atiti

set merge [K]:= exailities

set K; = K+1 and i:= i+1.

else

set Marge [K]:= ax [J]

set k: Kill and J: = jill

[50d of it steadure] [50d of Coop].

```
3. Repeat while IKM, then:
              SEP meye [K]: = amag I [i]
              SET i:= iti (itt) Tabile (ixm)
          SET K: KH (KH)
                                   as DET = az Eiz
          CEDD OF LOOP ].
    4 · Report while Junithen;
              SET Meige [k]: amay & []
              SET J: It and K:= KxI
                           I HE while Cuxn)
          CEX OF COOP ]
                                   a3 [k] · ad[];
     5 Exit:
                                        J++ > K++;7
estee Size of any 1:2.
Este soxled elements of anay 1:
enler Size of away 2:3
 enter souted clement of away a:
After Neigny!
```

Singly libled slack.

Dush, pop, linear Serech

step 1: staet. step 2: reclare the node and the regard Vacable. (Shuet Mode) Step 3: Delane the Junction Lose push pop, Duplay, and seasch anclosent (Voicl push (101) Void por () Void display 1); Void Seven Record the domest choice Iron the Uses (past)

(keals a New Made with grown data. step 5: If the cure choose to push andonest, then send the element to be probed and the function to push the element by Dasing-the Valuable Value to the Justion.

5.1 Et the Usu Select push operate then Create a Now Node with girles data (f toj) == Nall thes; Cohech whether the stack is enpty). set Pop == New Mode New mode -> Nost-Nall

set alexa nucle -> Menl = top top = N/w noch.

su sel Pop « newabela & dhon Point Insula la Succen:

Step 6. If were choose to pop an elemen! from the Stack other Coll the function to pop the element.

[If top == Mail then: check whether stack is empty"

elu:

Creatian Temporary socie and sel 11 70p)

duplay Tempo adata.

set Pop = Remp -> Next

Conalu Top poul to the Most pode)

Fre (temp).

Colelet the Tempany Noch J.

the Call the Juxties to display the elevat

11 : declare a Dowler node pour 10 set parle Pli =top

is not place that there Frat (+ 1) F Mushay under to anyony Ashita Printe 1th = A forth About The of male pla school Apt mate gide a 1 hade file offer 91 photopile 1 . Mill Abon 96 mil 1 9" (At 1) Count which Church 18thp: Mull Along Devel show to some of sondiles. It the con chance to send under Two the what the roll the Territor is Send on clement Delan a pointe Verente le desse ent des tens Very About holds the Value de la tension set Mante . der 6 1 ent dlage o

· Reprol able top . rall Il Temp sdala = they this. duplay releved down Sel Hagel Cilar Cro do stop to Sel Temp . Temp - s Nemit 1 F Han = =0 This doplay welm I not fore! [Gali) set flaged incurred one by one cal " ple ph some J.

Cueulae Queue Add, Delde, Search

1: Start a: Dedan Quem april Regard Vaciable declare the forction ton enqueue, deaven deploy and Search [Void insert!) Voul duplay1) Void seach 1) 4. Lead the choice from the cure to exqueur diaplay & Seach.

[rund ("In columny opl)

scan + ("Y.d" & a); · 17 the arm chose the option enquire then read the element to be instanted down the alun. To Call the Faintin enqueue end Duss the Walin to the Jaxtins Check If Jeod == + and rear == -1 then let Jeont = = 0 real = 0 and set queue Trea J = elons 50 : If had == 0 and 'Rea == max-1 and fecoloz=

Near HI Prot a 17 OVatlow

	[Head=2001 leal== NOX-1 11 Jean]
	Part Coln Cuealon Cline U Fall 1/10/19
	Most Coln Cuealon Que is Fall ! [no].
5.3	: else leae: Leut I and most and set
	anene [Kan] : element.
	Treme = lent 1]
	(Queen Trai J = NO;
65.4	is I she ase choose the option descreve the
	Call the function deaven (m) Chile
8-1	: check if Loode 2-1 and Leve = 2-1 Rest Own
	copty.
6.2	: dre check 1 Theor) = 2 Reas than Deot the cla
	to be deleted other Set Short: -1, New 2-)
	Jeost = -1; Dest ("In them Len = -1; of Clebular 1)
e 2	Zen = -1)
6. 3	: elle Pert the denert to be deaned 18th
	Iron 2 Least 41 Marl mar
	[du Lest : Lest ois.]

: If the mase choose the option to duplay, the Que, then call fasch duplay. ! check of Lool == 1 and leave == 1 then Point Come is exply.

[if Lent x=-1)

Prol (17 The e.a. is empty)

: else repeat the Step. 73 while ix her don? Porol Que to I and set 1. it [Labole (u. Kan) 1) the wee choose to Seach on element in the Que of the Cour of the Call the Tuncto to Seach an element in Quew. : Read the element to be Suiched to the Quin 8.1 ' check Her = = Omm [] then Prot Item Fond. Pol and Dosto incurrent by CI (et Hom - a (come (D)). Dest Cation four at localis : 11 & C=-0 Post Hos Not Ford CRF (c==0)

Ment ("In Not m)]

52: egd.

The pageas to Durlows Set operate
sto 1 start one second Variety
ship a declar the Decressing Variable Tiplebin Gas A Casilla C
elep 3 Read the Chora Leon the cure to per faces at Operation [m. 1 (rep. 1 chara to pate) sent id ach).].
Phop as Rend the Cardinality of [Paul (Internool2 173-18ch.) Rend the Cardinality of [Paul (Internool2 173-18ch.) Cardinality of full feld
should check me of then Port Cannot Paten comon
shows: ela lad the eland on both the Site
olopes: 12 aprel the stop 20 to 4.7 cold ixes
shall pooletis pende ordicali

Sel operation

4.7: In (210) 1 by 1 Ships: Read the choice Joon the circuit to Dactury 10 Lessection · [case 2 · Pant] · Read the Caedmality of a fet. - Proof C'Ineplex Caedinality of fix 1 Set Stanf ('Yel' d'm)') Dent (1/1 Total Caselmants of Second se.) Scorf (1d", dn) Check to It mien - Iben Pent Cannot Putaen Intersection. [If (ml=n) Dent Calm Cannot Pentaus interseleti) : else lead the clanes in both the Seh Slep 5.3 : Repart the Step 5.5 to 5.2 wolfs 1 cm. (Ju) B.4 Su. Cyclou till a paid & Btil Step 5% CEIJ: n [i] & A[i] · Pant cto. Step 5.6 Re. + (Videci) : Idunes 17 by 1.

```
: 18 the Usu Choice do perform Set olift.
Sep 6
           Officea lion.
         : Read the Caedwality of 2 Sets
Slep 61
               ( Case 3.)
           : cheek H men the Post Cannol Pretons
Step G.X
                   Set diff. operato.
                [1] (m 1=n)
                    Prot Colo Cannot Perfores Claft!");
           · else read element in both Sets.
           : Superal the Step 6.5 to 6.8 woli kn.
Ster 6.a
           : check If A Ci] = 0 Then a Li7=0.
Slep 6.5
           : else if B Ti] == 1 then cti]=0.
 SED 6.6
           · else C[i] = i
 Step 6.7
            : 10 Caumes liby 1.
 Skp Go
                                      ele
              (CIJ = 0)
                                        c TiJ .1'
                else.
                    If BCIJ = = D
                     caJ = 6.
```

Short : Regard the Short 21 and 20 woli 1.

.

`

doubly listed list. Regens to Pretain Operate in doubly 1: Start. a: Peclan the Standara and Related Stenetu Vaccalele. Rep 3 ! Declare Lunch to Create anale, Mesta nocle with beginning 1 in Lution at the enel, in Section at the girles position, chapley the list and Seach an element in the list. Ship 4 : Desiner a Joseph to Crent a nock détante the legement l'enalete.

Steris: Set mensey allocates to the Cuate a nate, declar the de Vaciable.

skin 4. a ! Kond

: Se I memory allocateil to the node = Tomp, Then sel temp = n = data and temp=> cles q.1 Pext = Nall. : Read the Value to be insuled to the node. Sle, 4.2 : Set tonp > n=data and insul next (aux) slep 4.3 · Rend the choice from the cese to Perton Skp 5 diff. operate on the list. Opened at the beginning than Call the skn 6 Janction to Perform the insetion : check 16 head == Nall then Call the Jack) Stop 61 to Cruita a node, Palam stepa to Step 4:3 : Set head = trop and trop 2 = head. Sop 6.2 : else Call the Justo to Crente a noch. Step 6-3 Pertoen Step 4 to 4:3. This Set. Ponpa nezt = head , Set head -) Pacydeny and head . temp.

Step 7: 19 the area choose to Ductor Inset, to Perform the Insulum at the end. : check if head = Norll the Cell the Juets. to Cunt a New nock. Then Set tonpe head one then set ton. : else. Call the Jants to Creat a new North Fren Set Penjo a Nester Ponti. Tont -) · Plant = temp 1 = temp 1 = temp. : 12 the Cla Choose to Revocen moset Opento on the hot at any Pointus. the Call the June to to Perform the useto Open Step 8. 1: Declar the neclosary Varieties Shin si 2 : Read the Dos to when the noch need to be inteded. Tot temper head 361 8 3 : check W. Porx1 Gr pos> = Cart+1 then Rend the posts is out of engle

80 : chell II head = Mall and post = 1 then print "Compty lad Cannot in Sent other Iban 1st" Posit stor 8.5 : there head = Alall and por =1 then Call the Junction to Create new mode, they Set temp = head and haud : temp Sho 8.6: while 1 < pos other Set temp 2. temp -) much.
There Incremed 1 by 2 She 8.7: Call the Inela to heet a new nocle and then sel temp -) per = tempa. Tem) = nex! - Pemps -> next. Penpe -> next -> prodesterys. topia i poxt i top. ... Stop q! It the nee Choose Perfoso clele for Opeats
by the lyt the Call the Justs to Peto the delet operato. : Declare the necessary Vacalete. : lead the position when nocle need to he delited. Settemp 2 = head.

Perol Posita out of Ronge.

Slow Gill: Chek if head = = Alord then Prot the list

Stop 9.5: while IX pos theo temper. Temperante

And 96: Check it iz=1 the Check it tenp2-) next.

Noull tenp pent neede de keted in Change) set lange head = Noll.

show. 97: Chell Is temp 2 -0 next = = North then

free (temps) then Pant node. debited.

Shop 4.8: temp & -> Dead -> Deed we temp 2 d) Prill

then Check U 1 1 = 7 them temp x ->

Dev-> Dead temps -> Devd. temp2 -> mil. temp2 -> mil.

stop 10: If the Chook to Perton the duplay

Operate than call the funct? to display the

Stop 10.1 : Pet temp