```
* Country - Louis Count. Each town has some post office - packages stored & transferond
 * post office - Some 19m9 to (Stoppage, m9n_weight, max_weight)
 *packages skopped in some ogideon in the ossince ovueue! - processed using order
when bending & Receiving.
 * Sometimes - transaction b/w post oggsces - (0895eonent towns)
         * 1 St one sends all packages to next one.
         * and one accepts - packages - satisfy weight I Pmiks of 9t, großacks all other!
         * Rejected packages - returned! - Stored in same order (begove being sent)
         * Accepted packages (and one) - moves to tall of the evueue (same order)
 * Pgnocess - sevenal appearles!
                     Skruckusses: package, post_office and town)
 1)
 Print_all-Packages: - given town t - print all packages an this town.
                                                     ovueue: First in frost out
                  Town _ hame:
       seems of comments
                 9d_0
                                              * 0,1,... -> postoporce numbers
                                              * Pdo, Pd 1 -> packages from oth
                                                               post office.
                         9d - 2
                                                              (oruque) - ordeon!
                                               * 9d2, 9d3 -> grow 1st one.
                                                t b/w (begone) rd_0
                                         Source, Langet (Lown),
 a) send_au_acceptable_Packages
                                         POST Office Index

Post office Index

tagge t_Office_Index
                manage: transaction described: blu Sounce & tanget post office.
                                                   9n desponent towns.
                                 goven towns, (one with - most packages in all
 3) Lown _ with _ most _ Packages:
                                                               post ogasces!)
           several, Reburn frost one goom the collection towns!
```

		11 1116		
ą	The state of the s	3 10 300	No. 90	tourns
A		2200 2100 310		ser ace see
2				Coupt
2	1 3	kage count, min weight	max-weight (describe packag
a	& OANDER TO BE CANDON PO	school to cake min		
4	3-41	weight	- 22 months - 200	O C. X
1	3 4 Pag	Kage Count, man wer	ght, max weigh (os	£9ce 1)
		ickage found, weight	15) CORRESCON XALL	T.
C				
8	Town 1		least corportura	ra- Research
1	1 4			
4	1 4 APack	, , , , , , , , , , , , , , , , , , , ,		
d	4 packs 2 5 weights	un = _ peries un r	als costo	
e	2 110 4 of 1 20,04 consule			ord united
र्	3		: Some ! _ must	
h	4			211120000
5-		control transmitted participation of the same of the s	Number of	queries.
3 -	1- 70u	in-kame; name of the tou	Bed. pelon.	
2	B 0 A 1			
3 -	enter the second content	1081 A	and the same of th	
1	A		2 60	
1	B - (200000)		SAT	
	200 401 most const.	X 72%		
	0.61. (2. 10.00	hours - porgnt all po	ackages for that how	b.
1	-> LownName -> theore 95 a hown -> point all package in that hown. -> Sounce city, Sounce office index, Deak city, Langer office index (1/p)			
à	? Sounce City, Sounce of	THE MOENT		
Stock!	L To	ansaction - process	acceptation to the	le rose (
	3- Town when most pack			
	ware a knowle bear nest to		Administration of the second	
	count counts		V	
	Type: 1: Au pack	ages - foormat		

removal teresan frest one your sie colorsion towns!

find_town : Stilling name -> find town with name name 9/p

Type: 1: Au packages - format

Queory: 3 - mosk packages!

(festion to

```
1 Point_all_Packages (kown t) -> void -> loop all offices -> take count -> print
                                 Posent_all_Packages (bown t)
Foomat:
16
                               9nt 1,3;
                                Pon9ntf (ee %. s: \n', t. name);
                               for (9=0; 1 < t. offices _ count; 1++)
                                  porents ( ent % d : \n ??, 9);
                                  for (8=0; 3 < t. Offices [7]. Packages_Count; 3++)
                                     Posntf (ex 161t % SIn", t. Offices [9]. Packages [3]. 3d);
Struck kown
  chan * name;
                        @ find Lown - ne turn Lown * (Struck type town) - pointen
 Post _Office * offices;
                                   Struck type town.
 9nt Offices_count;
                                               dehospenence then access member.
Struck post-office
                       town * find_ kown (kown *towns, Int kowns_ Count, chan *name)
  ant min - weight;
                       fort P;
  Pot max - weight 3
                                            kowns_count; $++)
                          fogs (9=0; 9 <
 Package * packages;
                            9f (stremp (name, towns [9]. name) == 0)
  9nt package_Count;
                                           beneak;
Struck Package
                          greturn (& kowns [9]);
 Chan * 901;
                                                              Lowns [9] -> Struck Lown
 9nt weight;
                                                            & kowns [9] -> Struct: Lown *
                 3 towns _ with _most _ Package (kowns * Lowns, Int howns _ count)
   1 loop through all towns
   @ count - loop all packages in a crity!
                                   and getTotalPackages (town t)
                                      Int 9, Sum = 0;
                                      for (9=0; 9 < t. 8349ces _ count; 9++)
```

```
town_with_most_Packages (town *towns, Pot towns_count) of
                                                        town x towns
Pot 99 max = 09 pack, blg;
                                                             pointeen to town
fogs (9=0; 9 < towns_count; 9++)/
  Pack = get Tokal Package (kowns [+]);
  95 (Pack > max)
 greturn (towns [big]);
 void send_all_Pac rages_ acceptable (hown * Source, 9nt Source_Office_9ndex,
                                     town * tonget, 9nt tonget_Office_ Index)
idea:
                  clale
                          95 eligible - append to tanget
                                Collect Seperately 1934 (order preserved)
    bodof - Not elegible
                                           tanget
                  Sounce
                                           9/h/9 a c
      Not removed!
     Just Copying
      (So data - well bethose)!
                                  to Sounce - after downing
            600 py 1952 (addones)
                                  dynamically allocated space of Sounce!
```

Sum + = k. Offices [1]. Packages _ count;

```
* To access package weigh - through a package - foor short worthing get address
void Send_ou_ acceptable_ Packages (Lown * Sounce, int Sounce_ Office_ Index,
            town. * tanget, Ink tanget - Office - Index) {
                 9nt ?, K= 1, wgt;
                 POSK_OFFICE * STC = & (Sounce - Offices [Sounce_Office_Index]);
                 POSK_Office *dan = & (kanger -> Offices [konget_Office_Index]);
                 Package *new_packages = (package *) mavoc (882005 (package));
                 foor(9=0; 9 < 3rc → packages - count; 9++){
                        wgt = Src -> packages [1]. weight;
                        Pf (wgt >= taon -> mgn_weight dd wgt <= tar->max_
                                                                      werght) {
                             (koon - packages Count)++
 (Package *)
                             toon -> packages = realloc (taon -> packages, streat
                                                            (package) *
                                                               tar-packages-Count)
                            taon -> packages [taon -> packages_count -1]=
                                                            Src → packages [9];
                  else
                     new_package [K-1] = Src -> packages [9];
                     K++3
                     new - packages = nealloc (new-packages, $92005 (package)
                                                                       *K);
              force (Src → packages);
               Src - packages = new-Packages;
              Soc → packages-count = K-1;
```