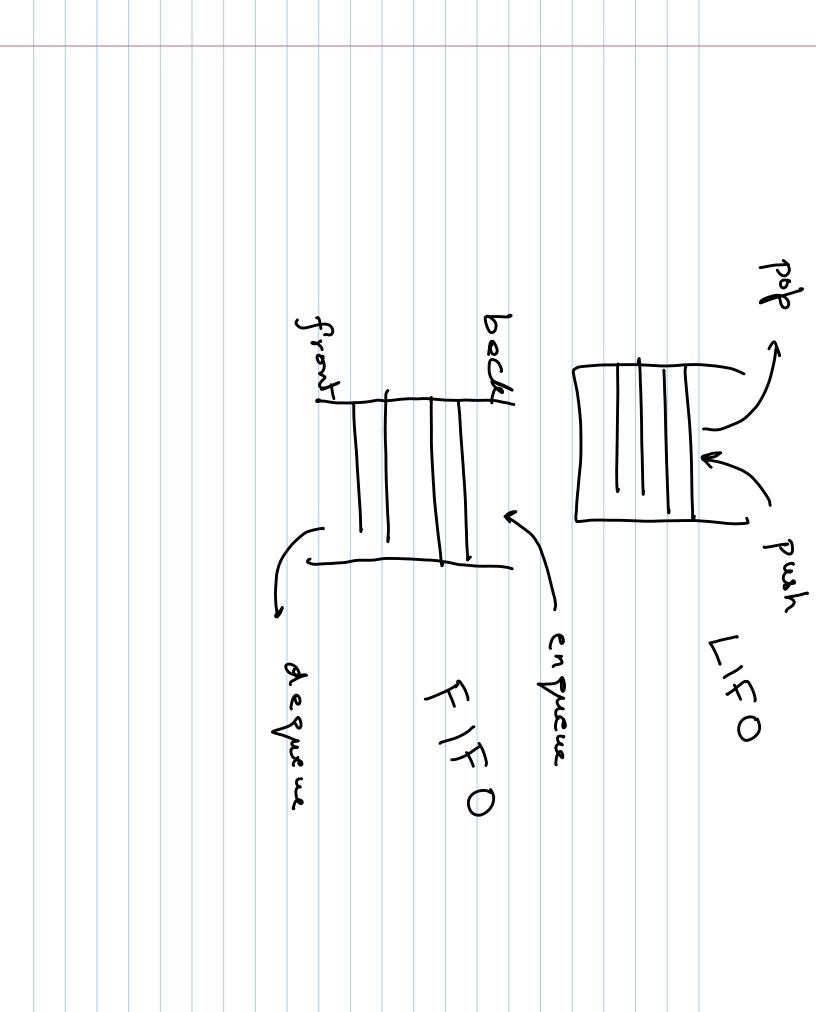
Sist. Last - in All o(1) 100 100 Review: 0(4) Queue / Stack< -> s.pop() rel s.pop() rel s.peek() rel q. en que us (velue) q. deque us () q. peek() Lecture > church repusa velue and popo relue



cout << p: /

Queux <ixt>

व् 14:1) じョユン さく= 6; じょく

g. erque (i).

int gaice = g.size();

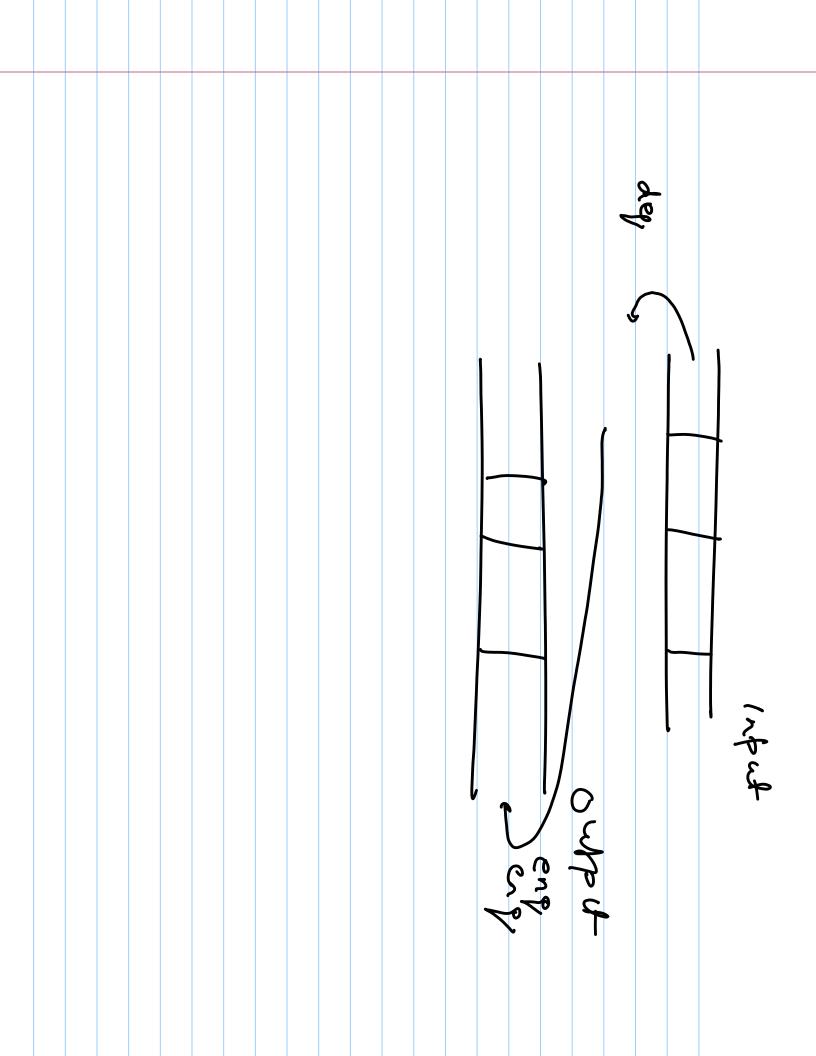
for "(int i=0) (< { } size(); (++)

Cout <= "q. size() = " << q. size() << ed); cont << 9. dequeue() << "

1) - si u() = 5 (< 9 - size () : TRUE Heredon O: 1 < 9. Size (): TRUE 9. 8 1 23 45 636 へ 1 1 1. size(): 6 8. size() = 4 (< 5. size (): TRUE 3. fz 3 7 5 636 Output: 1 2 3 p.sml1=3 p.sive() = 3 () ()

Another. while (g.size() >0) cont << g. dequeus() << "

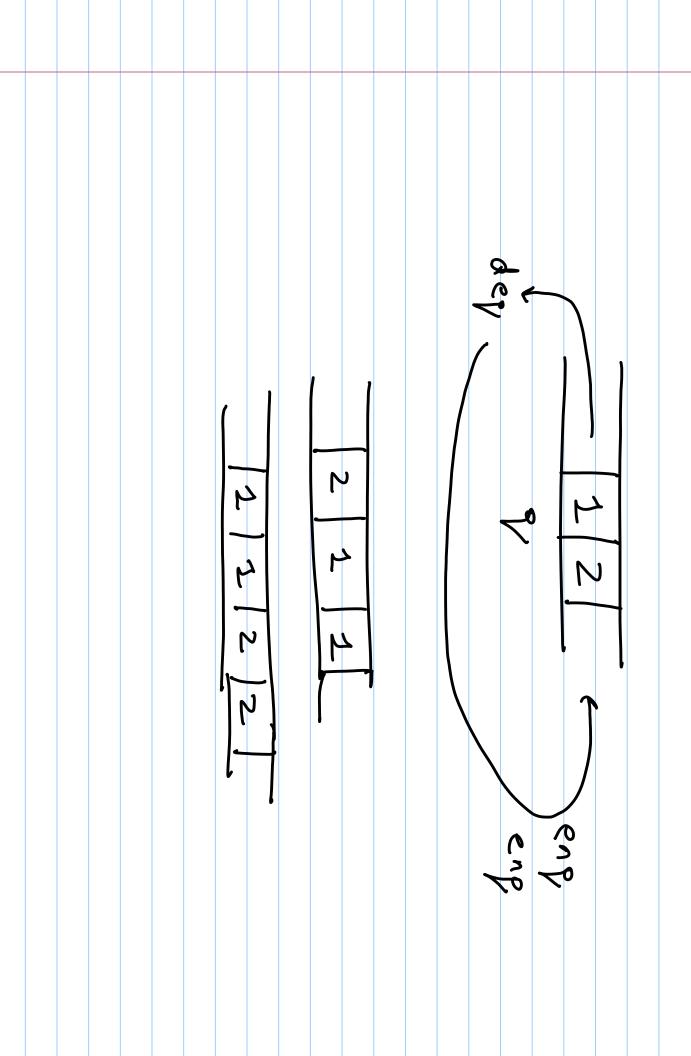
seture à new queux crite elonent txacire: Write ecception C C Parchei Input: f 1 1, 2, 3 ? 6 Output: " dublicate" 11, 1, 2,2,3,336 intercas Sit. and かと



Queux <int > dublicate (Queux int > tor (lint Let uz ? J. 7 09. enqueue (x); 172(1); 1/58 Bb i < i9 &1 2 c

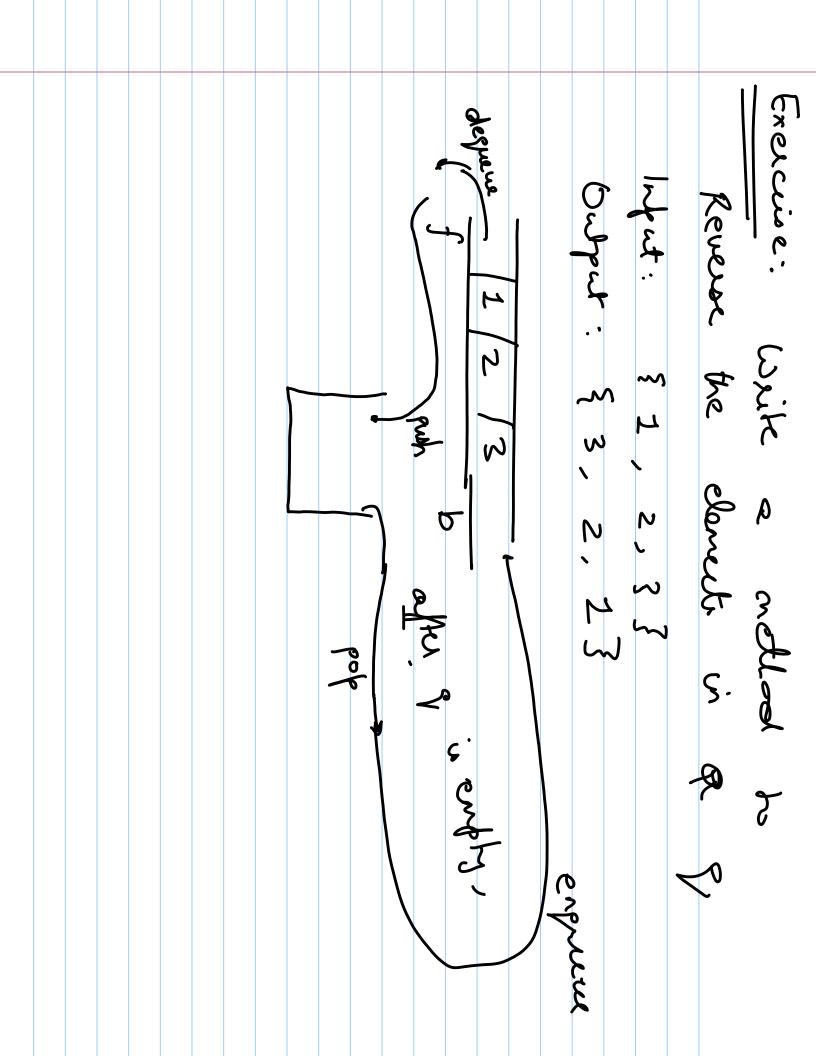
```
Queue <i7>
                                                                                         while (ip. size() >0)
                                                                      ? int x= ip. depueue(),
                                                                                                            Queue (if > 09)
refuer of:
                                                                                                                                duplicate ( Que ue <ix+>
                                                     cogrengue (n):
                                       of enguena (21);
```

charge the question: charge the input queues void duplicate_in_place (Queuc<int> & q) for (in) (=0) (< psize; (++) ist n= q. depuese () ; Psize = 9. size(); y. enque (x); g. esqueue (x);



0 Sour Be careful about: show been in a you ere 4 <u>خ</u> (int i=0; i< pries; i++) a/8126 -Il do something with combiny elements is a 8.0120() variable finst guem

Arther while (! g. is Empty ()) pethur: // do something with



```
Void
                                                                                                     Stack < int> s ;
                                                                                                                         reverse ( Queuc sit >
                                                                                   while (! p. is Empfy())
                      Emphy())
q. enquem (x);
            1st x= &. pop();
                                                                 int x= p. depueue();
                                                  s. push(2);
```

treactions maybap of ex Owput: Input: itself pus, epperala 3 7 7 ~ = @ ; xoueve ゲー Agu a elemente house 48 nethed elened y deputed the stock erquem oxder. ind explose "Mixxox" 4

```
0
                                                                                                                                                             void
                                                                                                                                      Stack (int) &;
                                                                                                 nt paize = q. size();
for (int (=0; (< psize; (++)
                            while (! s.is[mpty())
                                                                                                                                                             mirror (Queue <int>
g.enqueue (n);
                ind x= x · popl);
                                                    5. engueur (x); // O(1)

5. engueur (x); // O(1)
```

Debugging

Stops. isolete the Determine . Hay and find the smellet input tres that you have "by" s. The 100chon

Debugger

Break point:

program will paner
et that line of cools

