

Ipg G2: finding whe mode
'mode; value & appears most often.

Survey responses; array of values botwn 1 & LD

→ Nort answers That pg 62: finding who made -> find mode (if multiple, only select one) define array sunsorted arsults -> 27 vesponses

-> sort array -> create function & courts each response type

-> create function to determine mode.

-> stop when finished, tell me what it is. later, clean up code so Queach segment lives in different simplified mode func stally how many of each # there are.

for (i=0; i < A_LENGTH; i++) } int - to int running Tally=1; int running Companison: 1;

(ones puroes) mode → value Pappears most often int tallievar = 0; if onex > tallievar & 2&

tallievar = ones; 3 else if twos > talliebar & tallievar = twos;

int tallylar = 0 j if onesotato 君 ones>twos要 > tallylar = ones;

Pelse & //(if twos > ones)

tallylar = twos;

z

```
TW05 = 0
                            runningQuota = 0
                                                                              THREES = 0
                                                                              tours = 0
          0 1 2 3 4 5 6
     a= 1,1,2,3,4,4,4) tally each#
           running tally = 1
         if a[i] == running-tally

Re running Quota ++ /
                  runningtally ++;
         a[0] = 2 + run + rt? \Rightarrow 1 = -1? yes! \Rightarrow run + r0 + + \Rightarrow 1

a[1] = -rt? \Rightarrow 1 = -1? yes \Rightarrow rQ + + \Rightarrow 2

a[2] = -rt? \Rightarrow 2 = -1? no! \Rightarrow rt + + \Rightarrow 2
               Somehow & want a(2) to be compared again!
         counter=1
         if a [i] = = counter

ONES + 1;
                                         if a[i] == 1
                                           Ones ++ j
                                      elsif a[i] == 2
                                               two8++;
                                        elsifa[i] == 3
                                               threes + + j
                                       elsifa[i] == 4
funció spaintais?
                                             fours ++;
 need saturing
  grandil wen been
                                          the cout <= "unexpected error in";
error: invalid types int [int] for array subscript
  3 else if array [i] == 2) 3
compething about array, Subscript, Int, we something similar
```

XX

ONES : 0

// use this tally Array to help make // mode code more universal: int tally Var = 0; tally Array [ARRAY_LENGITH]

if ones > twos { function @ sets each tally Var = ones;
3 else //(if ones = twos) "element to zero! tally Var = twos;

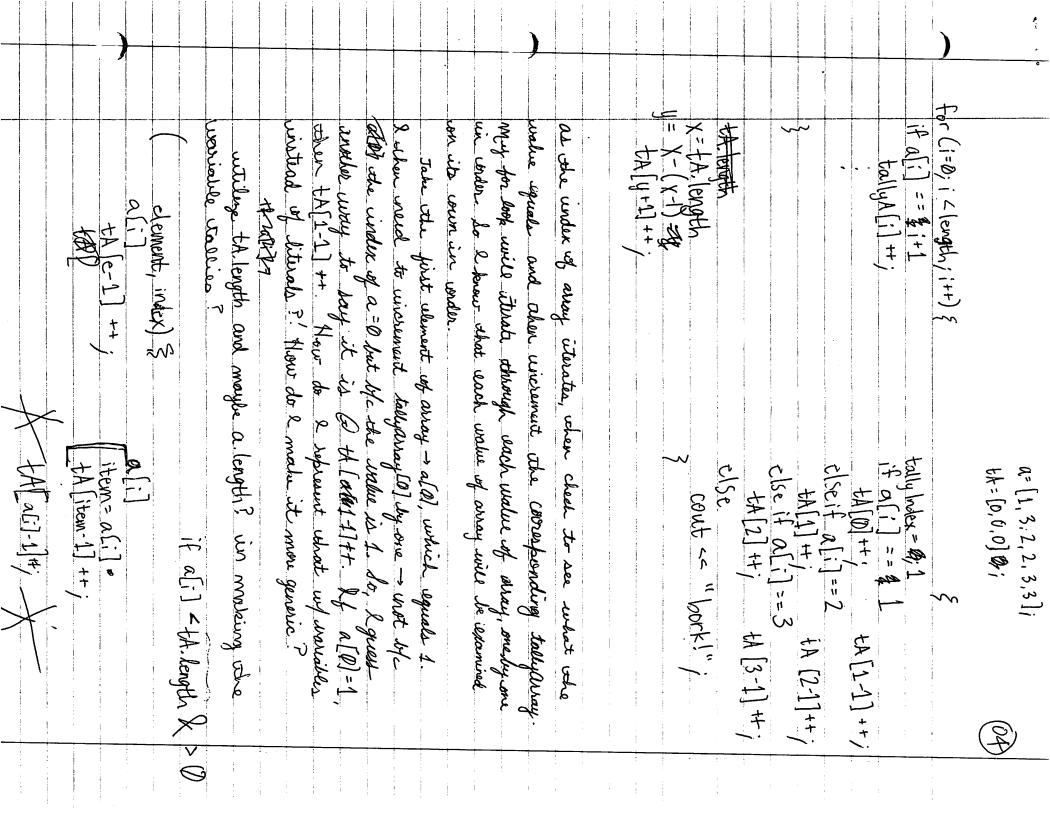
Muse tally Array element & index to Il keep track of mode counting "

the length of assertally Array is egual to the # answer # range (1 to 5, 1 to 10, etc), not the length of Survey Responses (19).

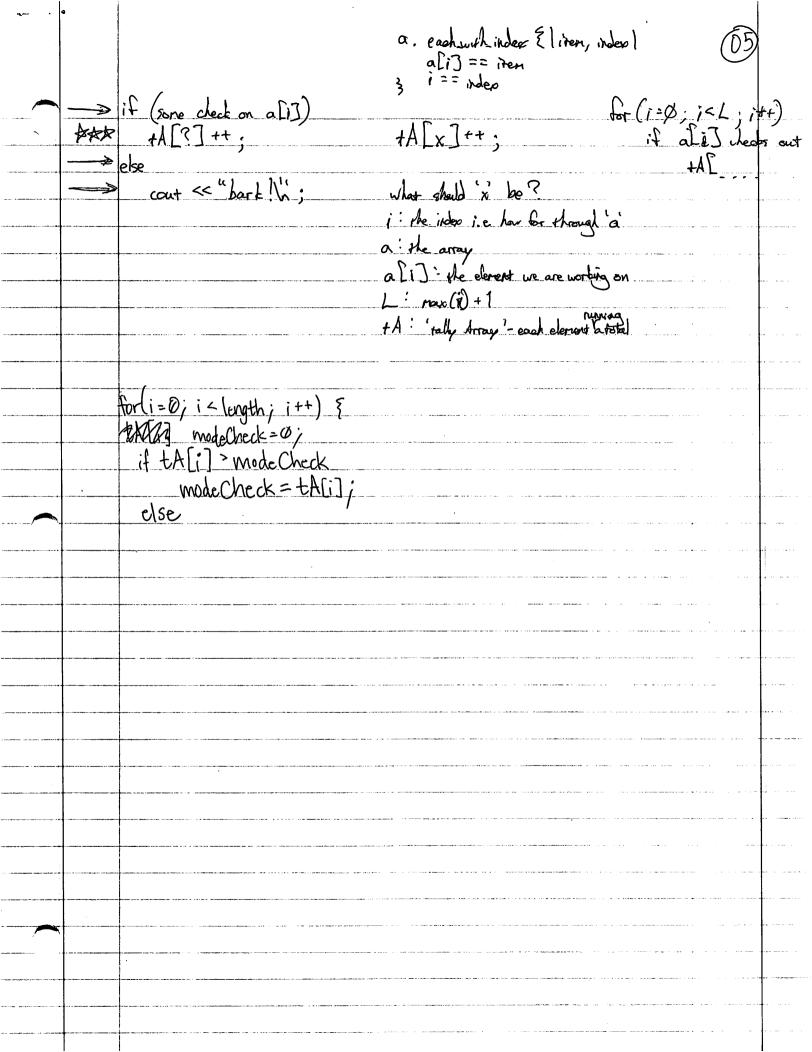
> oreate second constant which is the length of Durly responses

int array -> spassing whole array - should point to starting point and then add the Vergeth thete needed & when do who whings to the walue cop @ location. Plus, arrays are reflectively pointers by wheir went registerce and function. int location > why usn't this a pointer? I Suppose it represents a single Walle (in this case a variable @ means "5"), not an entire array. But surely there more to it when that Genoth case gets used in a different tier of the func than a very does - could (a) have an unpact? It seems unrelated to the core logic and if anything just an centension of how who functionality works or Something

if don't want to alter Parent, create werlinked child (not pointer)



++ []- A] Ad # (1-X) -X 0 5 12 April 10 2 (1) 8 31



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