

\*\*First Burze Test\*\*

In the Tists Burze test\* is an interior question designed to help filter out the 99.5% of programming job candidates who can't seem to program their way out of a wet paper bug. The test of the programming assignment is as follows:

Titles a program that prints the numbers from 1 to 110. But for multiples of three prints "Base" has number and for the multiples of the prints "Base". For numbers which are multiples of both three and five prints "Base". For numbers which are multiples of both three and five prints "Base". For numbers which are multiples of the prints "Base". For numbers which are multiples of both three and five prints "Base". For numbers which are multiples of the prints "Base". For numbers which are mult Why Fire-Passe is "bards".

Why Fire-Passe is "bards" to wast understanded why no many people "fail" the Fize-Baza tend unbess we understand why it is "bard" (for them). Understanding that, we may be able to evaluate the underthose of this tood, and others, as illustring tools for candidates.

Think Fize-Passe is "bards" in "bard for some peoples "fail" the Fize-Passe tools for the forest fail to desert fit into any of the patterns that were glown to them in a chool assignments, and (#2 It ins't possible to directly and simply represent the necessary tons, without displication of \$4\$, that is a few darks in a part of the patterns that we present the necessary tons, without displication of \$4\$. The first index of the patterns they removeded from between and class essignments. It think this makes it a good discriminator, because I winh to him candidates who can think for themselves — but those who are limited to copying sol to \$4\$. But it is based to directly code in Fize Darks does not all into the common pattern of Well it does, but not when you consider "1,2 & 3" to be atomic tests, like "is divisible by 3.") LEMBE THRISLATE IS divisible by 2) then ...>
if (thebusher is divisible by 3) then ...>
if (thebusher is divisible by 5) then grint "Sizzbazz" ...
grint "Sizzbazz" ...
elso if (thebusher is divisible by 5) then grint May 1 thebusher is divisible by 5 then grint May 1 to 15 \*/
ed by Titebusher is not divisible by 2 or 5 \*/
end if its Debusher has no recurrence of the 2 statements in kides, and there are two twos for the book of the book of the statement of the 1 state [AMI] The artifaction of the of automatoms, it will, and there are two tests for the same condition may have to be repeated, it is performed in different branches, and therefore it is executed only once. Why no bear the same to be a supplying key about them, and while the same condition may have to be repeated, it is performed in different branches, and therefore it is executed only once. Why no bear to be repeated, it is performed in different branches, and therefore it is executed only once. Why no bear the performed in the contraction of the contraction o Maple there's no simple and satisfying solution to the code structuring issue, \_\_except to COBOL-85, which would be irentic, >) = intrinsic 19th there is a simple and satisfying solution to the code structure produce class features of the page but I made a new Java solution that is way smaller than the cose below:

public class feature I = section feature I = sect -Alex North Update: I made it even smaller but now it has some minor repetition: makes town senance but flow it has some nance reportions:
public exists forburs {
 public exists (makes a ministrion[] myn)
 forcion 1 + 0; i < 300; im-, Spites.mot.println(x 2 = 0 || 1 x 5 = 0 ? ((( x 2) = 0 ? "fizz" : "") + ((( x 5) = 0 ? "hazz" : "") : 1));
}</pre> About North

How is a single-jest solution:

White is a single-jest solution as sensitiving | way)

For a single-jest solution as sensitiving | way)

For a single-jest solution as single-jest solution is a strong worksion

For (1 to 1.2) to 30 jest jest solution | single-jest solution | to 1.2 jest solution | single-jest solution |

For a single-jest solution | single-jest solution | single-jest solution |

For a single-jest soluti for(int i=0;i<br/>if(2%)==0){
 System.out.print("Fizz");
 flag=false; if (flag) System.out.print(i); System.out.print(","); \* What feature of COIGC-ES supports that?

There is very satisfactory existing to the code of satisfacts on transmitted to the code of satisfacts on transmitted to the code of satisfacts of the code o This (deliberately) inelegant looking pluy code will do the job without any modulus or if. then (other than what's implicit in a for loop) calls. The focus is on the algorithm, so it's language agnostic (hence the avoidance of simpler and more elegant pluy constructs - might as well have written it in pseudo-code). I am putting it out here since I haven't seen any example that avoids both if and modulus. \$step[1] = 5; \$step[2] = 15; }
// Mark the "FizzBuzz"es
for (\$i = \$step[2]; \$i <= 100; \$i = \$i + \$step[2]) {
 sthatist[si] = "fizzBuzz";
} var\_dump(\$theList); The the description that a number divisible by 3 and 5 is also divisible by 3 \* 5 is the key to a used <u>Findings</u> whiteins. - tof

When I see a solution with \* 5 I. J. is an inclined to declaim it is be objected depictation, and referred it back itself; it is, \$1 5 is 6 in (\* 5 ) to that the depictation is more obvious (and the program reads closer to the spec.)

The description of <u>Seedings with the Seedings of the Seedings o</u> In response to MarcThibault question: What feature of COBOL-85 supports this? It is probably the EVALUATE statement. The modulus operator used in several solutions given here may not be the first thing that comes to the mind of a COBOL programmer (possibly a case of having ones problem solving techniques whatever you have to do and reset the counter.

TOGNITE CATTON OFFICERS DATA DEVISION. WORKING-STORAGE SECTION

Here is a COBOL solution to FIZZBUZZ using counters

 FIZZ-CNT PIC S9(4) BINARY.
 BUZZ-CNT PIC S9(4) BINARY.
 I PIC S9(4) BINARY. CEDURE DIVISION.
MENE ZERO TO FIZZ-ONT
MENE ZERO TO RUZZ-ONT
PERFORM WARVING I FROM 1 BY 1
UNTIL I > 200

```
COMPUTE $1272.COT = $1222.COT = $1
COMPUTE $1222.COT = $2022.COT = $1
FANCATT TIME = $1000.EDG2.COT = $2
MOST $1270.COT = $2
M
     The REMAINDER from a DIVIDE statement could also have been used as in:

SECURE 1 BY 1 CRIME 1-0-001-CRME SPAINSES FIZZ-ONT

DESIGNAY **IZZ-
IGN-UP **IZZ-
IG
          The above is the type of coding that gives COBOL a reputation for being very long winded. It doesn't have to be that way ;-)
          The above is one type of county time gives COROLL a reputati

Forth American

fitting (n - 2) 2 000 If 64.55 DOIT NEW TREE ." 5122";

1 bazz (n - 7) 5 000 If 64.55 DOIT NEW TREE ." 5222";

1 bazz (n - 7) 5 000 DIF 64.55 DOIT NEW TREE ." 8222";

1 bazz (n - 7) 1 5 000 DOIT NEW ." 1

1 fizzhez (n - 7) 10 000 POIT NEW ." 1

1 fizzhez (n - 7) 10 000 POIT DOIT 1000 POIT 0000 pc

1 fizzhez (n - 7) 10 000 Itzzhez 1000 pc
          \ Tests fizz@uzz
100 fizz@uzzes
          An alternative per of the solution which lets you define fizzbuzz-style at a higher level:

\ ader is the data address of a naise word we want to exput

\ ader - site and - address.
          \ allocate space for and and store a counted string isstore ( addr len -- ) dup , tuck here musp move allot
          \ define a word that makes a noise when passed a number \ which is divisible by its own parameter n : mod/noise ( n caddr ben -trame -- )
          \ define fizz and buzz in terms of their modulo number and message string 5 s^ Rizz^ mod/moise fizz?
          \ Now use them in our main word
: fizzbuzz ( n)
dup fizz? over buzz? or if space drop else . then
                     \ And call it in a loop
: firzburres 1+ 1 do i firzburr loop ;
          void test(int n) {
   bool printed = fizz(n);
   printed |= buzz(n);
   if([printed] {= output_number(n); }
   output_end_of_line();
          ice that there's no newline except in the fourth printf. If a number is a multiple of 15, the first two if-clauses are both true, so both cases run
                                                           or not such readable but a little bit faster ;o) :
                Finclade catdida.b (**Introducto*, "Augo", "Augo", "Fizzoto*, coast chare frei, trif [1] { "Introductor," "Augo", "Augo", "Fizzoto*, "Augo", "Fizzoto," Augo", "Fizzoto," Augo
Above C code to, no, insuphy programmer, you can't have an undigented argument on the printf, that will crash on some platforms.

If it crushes, the platform cannot be trusted to get anything right, because this is valid C: "If the format is evaluated while arguments remain, the excess arguments are evaluated (as theory) but are otherwise ignored." Identical text in CBD and CDD.

Or Jons with a different approach.

(as theory of the excess arguments are evaluated (as theory) but are otherwise ignored." Identical text in CBD and CDD.

Or Jons with a different approach.

(as the instance arguments are evaluated (as theory) but are otherwise ignored." Identical text in CBD and CDD.

(b) and a different approach.

(c) Jon with a different approach.
                                                                                       for(int in); icold() i+)

{

String num="1;

if(NA=0)

num="fizz";

if(nA=0)

num=fizz";

if(na=fizz";

if(na=fizz);

if(na=fizz
                                                 _____system.out.println(num);
}
          for (1.160) {
    (s. 50) {
        (s. 5) = 0 } "fizz" : ";
        (s. 5) = 0 } "fizz" : ";
        (stizz = (s. 5) = 0 ) "fizz" : ";
        (stizz = (s. 5) = 0 ) "fizz" : ";
        (stizz = ") | sbuz = s") ? print "fizzsbuzz\n" : print "f_\n";
          Or, as a one-liner: 
  \frac{\pi/(m\pi/k) \log \pi !}{\pi/(m\pi/k) \log \pi !} : \frac{\pi/(m\pi/k) \log \pi !}{\pi/(m\pi/k) \log \pi !} : \frac{\pi/(m\pi/k)}{\pi/(m\pi/k)} : \frac{\pi/(
          - ZaMoCongor<sup>2</sup>, 2014.01.31

No too for brainfulci?

- Campaigness of the control of the control
     Python:

import syr
for 1 in rape(-50, 180):
If Nine()
I
          Yasyf M.

TJUST started programming 2 or 3 weeks ago, and 1 came up with this totally independently, so you can imagine my surprise at not seeing such an easy solution:
```

SSI started programming 2 or 3 weeks ago, and I came up with this totally independently, so you can imagine my surprise at not seeing such an easy so for i.s. respect, skill; if i.s. es iii see i.s. es iii see iii

```
Jonny Evans Feb_2013
     Yet another python example : python - c \text{ `print '',n'', [sin(['fizz'*(x \land 2 \Longrightarrow 2) + 'Bozz'*(x \land 5 \Longrightarrow 4) \text{ or } str(x + 1) \text{ for } x \text{ in } range(160)))'}
     - cops in d- junct, if spire-background color at 197700000, bullet colors spire 2014

- spire and - junct, if spire-background color at 197700000, bullet colors spire 2014

- spire and - junct, if spire-background color at 19770000, bullet colors spire 2014

- spire and - junction of the color and - junction spire and - ju
     I take it this is no longer a programming exercise, but a <u>DrinkingGame?</u>

Three PHP ways -
These PRF ways-

flaction [graduate (Stepped, reape, Soutput, varse)]

form is notice_graduate (Stepped, reape, Soutput, varse)]

form is notice_graduate (Stepped, reape, Soutput, varse)]

form is notice_graduate (Stepped, reape, Soutput, Stepped, Stepped
                                  if (sf = (si%2 = 0)) sout .= 'Fizz';
if (sb = (si%5 = 0)) sout .= 'Buzz';
if (sf = 0 66 sb == 0) sout .= si;
sout .= ',';
     sout = "; ";

} echo $out;

3)-------
$out = "; for ($i=1; $i <= $N; ++$i) {
f = 'Fizz',
b = 'Buzz',
out = ''
  out = """ | "

for (; i <= 100; i++) {
    out = ((i \lambda 2) ? ((i \lambda 5)? f+b : f : ((i \lambda 5)? b : i)
    consider.log(out);
} - Jin
                                  if (imbividibleWyThree && imbivisib
commonle.log("firstwrr");
}
else if (imbividibleWyThree) {
commonle.log("firs");
                             console.log('fizz');
}
else if (sdivisiblebyfive) {
  console.log('buzz');
}
else {
  console.log(i);
}
      \frac{CoffeeGorgs}{k * (n, n, 1) \circ .tin * n $ then $a$ the sets([a]) \\ finites * (n, factors) * <math>\otimes (a) ect. Asyn(factors). reduce(k.kisd(factor, 1), '') $ sr $ i$ for $i$ in [1..a]) \\ finitesr([id], (i)' fin', 5: barr)) $ ... $ ... $ ... $ ... $ ... $ ... $ ... $ ... $ ... $ ... $ ... $ ... $ ... $ ... $ ... $ ... $ ... $ ... $ ... $ ... $ ... $ ... $ ... $ ... $ ... $ ... $ ... $ ... $ ... $ ... $ ... $ ... $ ... $ ... $ ... $ ... $ ... $ ... $ ... $ ... $ ... $ ... $ ... $ ... $ ... $ ... $ ... $ ... $ ... $ ... $ ... $ ... $ ... $ ... $ ... $ ... $ ... $ ... $ ... $ ... $ ... $ ... $ ... $ ... $ ... $ ... $ ... $ ... $ ... $ ... $ ... $ ... $ ... $ ... $ ... $ ... $ ... $ ... $ ... $ ... $ ... $ ... $ ... $ ... $ ... $ ... $ ... $ ... $ ... $ ... $ ... $ ... $ ... $ ... $ ... $ ... $ ... $ ... $ ... $ ... $ ... $ ... $ ... $ ... $ ... $ ... $ ... $ ... $ ... $ ... $ ... $ ... $ ... $ ... $ ... $ ... $ ... $ ... $ ... $ ... $ ... $ ... $ ... $ ... $ ... $ ... $ ... $ ... $ ... $ ... $ ... $ ... $ ... $ ... $ ... $ ... $ ... $ ... $ ... $ ... $ ... $ ... $ ... $ ... $ ... $ ... $ ... $ ... $ ... $ ... $ ... $ ... $ ... $ ... $ ... $ ... $ ... $ ... $ ... $ ... $ ... $ ... $ ... $ ... $ ... $ ... $ ... $ ... $ ... $ ... $ ... $ ... $ ... $ ... $ ... $ ... $ ... $ ... $ ... $ ... $ ... $ ... $ ... $ ... $ ... $ ... $ ... $ ... $ ... $ ... $ ... $ ... $ ... $ ... $ ... $ ... $ ... $ ... $ ... $ ... $ ... $ ... $ ... $ ... $ ... $ ... $ ... $ ... $ ... $ ... $ ... $ ... $ ... $ ... $ ... $ ... $ ... $ ... $ ... $ ... $ ... $ ... $ ... $ ... $ ... $ ... $ ... $ ... $ ... $ ... $ ... $ ... $ ... $ ... $ ... $ ... $ ... $ ... $ ... $ ... $ ... $ ... $ ... $ ... $ ... $ ... $ ... $ ... $ ... $ ... $ ... $ ... $ ... $ ... $ ... $ ... $ ... $ ... $ ... $ ... $ ... $ ... $ ... $ ... $ ... $ ... $ ... $ ... $ ... $ ... $ ... $ ... $ ... $ ... $ ... $ ... $ ... $ ... $ ... $ ... $ ... $ ... $ ... $ ... $ ... $ ... $ ... $ ... $ ... $ ... $ ... $ ... $ ... $ ... $ ... $ ... $ ... $ ... $ ... $ ... $ ... $ ... $ ... $ ... $ .
        We begin by defining the zz method that conditionally adds word-zz to

**Array.protstype.zz = (word, bool) >> this.push "#(word)zz" unless bool; this

cancels.log([].zz['fi', fid).zz['wi', fid).join('') or i) fir i in [1..388]
     ["fizz" unless i%3]+["buzz" unless i%5] or i for i in [1..100]
           Range;1 to(1889) foreach(x,if(xhl5==0,writele("<u>Sizzhozz"</u>),if(xhl==0,writele("Fizz"),if(xh5==0,writele("Buzz"),writele(x)))))
                             [ 16 -eq 0 ] 64 echo -n Fizz
[ 18 -eq 0 ] 65 echo -n Buzz
[ 16 -ne 0 ] 65 [ 18 -ne 0 ] 65 echo -n 16
            \begin{array}{ll} (\text{for a in } \{1,.100\}, \ \text{sl in } \{n \ \text{mod } 2\}, \ \text{s5 in } \{n \ \text{mod } 5\}) \\ \text{print} \{\{``,n\}(1+\text{cign}(n3^n65)) \ */ \ \{\{0,`fizz`\}\}\{n3\} \ */ \ \{\{0,`buzz`\}\}\{n5\})\} \\ \text{end}; \end{array} 
     The most concise PowerShell solution I could come up with (83 characters): 1...100|%($o=":if($,%3-eq0)($o+="fizz");if($,%5-eq0)($o+="buzz");if($o)($o=$_);$o}
     \frac{PowerShell}{PowerShell} \ in \ 62 \ characters: 1..100|\%{(-join(@('Fizz')|\$_.\%3],@('Buzz')(\$_.\%5]),\$_[?{\$_.}]}{(0.000)} \ line{O}
Paraghali - (Lated Microsoft Windows Operating System Language using Microsoft NET Framework and created from and sharing similarity to an analyzin of other languages such as ECMSCript. C, C++, Black, Pert, etc.)

Note: Romework the bash ** to accomment the last ** for time of the work of the control to the control time of t
                       if ( -ost ( 1, 4 2 ) ) { sreturn += "fizz" } if ( -ost ( 1, 4 5 ) ) { sreturn += "buzz" } if ( -ost ( 1, 4 7 ) ) { sreturn += "sost" }
                             if ( sreturn -eq " ) { sreturn = s_ }
                                  "{0,3:6}" -f "s{_}}" + ": sreturn"
     Single "if" Statement

Code:

1 . . 100 |

foreach {

    souther = 1,

    stretum = "
```

```
Java solution (without the main-method bodiery patts twice was a restrictables) {

patts twice was a restrictables) {

patts twice was a restrictables} {

patts twice was a restrictable} {

patts twice was a restrictable}
                                          Clojure
(doseq [x (map #(cond (zero) (mod % 15)) "[jizbuz"
(coro) [mod % 2)) "[jizbuz"
(coro) [mod % 2)] "[jizbuz"
(rmope 1 361))]
(prietto x))
```

```
| Transfer 
               Intelograntly, in Haskell (by agos):

fizzbarz xs = 1 f s - set 2 - set 5 - set 5 - set 6 set - set 2 
               -A Haskell implementation that makes an infinite list taking only the words you want for every prime as a list IN ONE LINE (by Mb010g):

(Nords > bet ainse as ye = if tail as = [] then as also case (compare (head as) (head yo)) of if > (head as) ninne (tail as) ye; 60 > sinne (tail as) (tail ye) of > ninne as (tail as) (tail ye) of > ninne as (tail as) (tail ye) of > ninne (tail as) (tail ye) of > ninne (tail as) (tail ye) of > ninne (tail ye) of
               - Use as follows: "take 420 % (FUNCTION) ["Fist", "Baze", "Baze", "Boom", "Base"]". The words get associated with prinses, starting from 3 (15,7,9,11,13,17...).
Hashell implementation using monoids (usuity extended to "wood", etc)
inver that, Newst
super that, Newst
super that, Newst
                      fb n = fromHuybe (show n) (d 2 "Fizz" \sim d 5 "Buzz") where d k mag = if n nmn k == 0 then Just mag else Nothing main = mapM_ (putStrin . fb) [1..390]
       In python for in arrange(1,101). print [1, Fazz, 'Bazz', '[1zz]Bazz', [1033 + +0] + 2^{-1}(5.5 + +0]) simple and clear: for a in range(1,101). print (if \pith S of \pi in T or 
       Python:

Perhaps clearer and more easily extensible,

where = (12, *first*), (5, **arr*))

for 0 = (ngap(1, 202))

for 0 = **(-)idoly for (k, v) in values if not a k k)

print(mail free clean k)
               - jefallbright

Python for readability:

for num in range (1, 301);

faz = 1f num \lambda = 51zz*

buz = "1f num \lambda = 64zz*

buz = "1f num \lambda = 64zz*

print first = buz if first = robuz else num
       DO 100 TIMES.

Local = sy-index M00 3.
Local = sy-index M00 5.
                                     IF 1_mod2 = 0 AMD 1_mod5 = 0.
MRITE: / "ElzzRezz".
CONTINUE.
                                     IF 1,mod3 = 0.
WRITE : / 'Fixz'.
CONTINUE.
DNDIF.
                                     IF 1_modS = 0.
MRITE : / "Burz".
CONTINUE.
               DMIF:
WRITE: / sy-index.
ENDDO.

C++ again:
#include clostream-
#include <ctflib-
                                                                                   Facing continues the continues of the co
                                                                                                  Matcher threes { 3, "Fizz" };
Matcher fives { 5, "Buzz" };
                                                                    for (Lot n = 2), n - support fives (5, "Buzz" );
for (Lot n = 2), n <- support support
               Wow. Psculior, unclear, and inefficient. Nice!

The not even a programmer! The an artist!

public class <u>FirzBurz</u> {
    poblic class <u>FirzBurz</u> {
    poblic class FirzBurz {
    poblic class FirzBurz {
    poblic class contained the class of the class
                                                                                                  print(arr);
               I see there's no lisp solution. While I'm at it, let me implem
(define-optex sep-or
(speine-roles)
(speine-role
                                     (define (fizz-buzz) (12 to-buzz) (13 to-buzz) (13 to-buzz) (13 to-buzz) (14 to-buzz
                                                                                   function firsburs()
-- with repeating logic
for I = 1, 100 do
```

```
    == (i % (3*5)) and "EizzBurz"

                                        or \theta = (1, 5, 2) and "fig]" or \theta = (1, 5, 5) and "Burz" ) and and fighter of the first state of the fir
          The above Lual anguage solutions seem inelegant. Here's the most straightforward approach to the problem:

for i = 1, 100 to
                                                            local fizz = 0 == i % 3
local buzz = 0 == i % 5
                                                            if fizz and buzz then print "Fizzkezz"
                                                  elseif fizz then
print "Fizz"
                                             elseif buzz then
print "Buzz"
                                                  else
print(i)
end
end
                                                  local fizz = 0 == 1 % 3
local buzz = 0 == 1 % 5
                                                            print( (fizz or buzz) and (fizz and "Fizz" or "") ... (buzz and "Wuzz" or "")) or i ) end
          Here is a lavascript implementation that does not use ifs:
                                                            var input = [];
for (i = 1; i <= 100; ++i) {
    input[i - 1] = i;

yar divisiblely = function(what, inputitet) {
    return imputitet.filter(function(item, index) {
        return !(item % what);
};
};

                                                  var firres = disisible@y(3, input);
var burzes = disisible@y(5, input);
var firrburzes = divisible@y(15, input);
                                                  var transfers = function(to, ordex) {
    return function(item, index) {
        ordext[free - 1] = to;
    };
};
                                                            fizzes.each(transform("Fizz", input));
buzzes.each(transform("Buzz", input));
fizzbuzzes.each(transform("FizzBuzz", input));
                                                            input.each(function(item, index) {
          document.write(item + "<br>});
Cyrons and main()

for (set = 8, 1 = 380, 1+)

All statistics years (= 6 month statistics)(2)

person has desirable (month statistics)(2) (1)

person has desirable (month statistics)(2) (2)

person has desirable (month statistics)(2) (2)

person has desirable (month statistics)(2) (2)

person has desirable (month statistics)(2)

                                                  from multiplicity ( Industryletif), I

Matthir

% Egginz by 'Cause'

% Egginz by 'Cause'

for isom = 1:100

finisher, ") = 1

for isom = (finisher 'Fair);

if mellowide ( finisher 'Sarr');

if mellowide ( finis
          * alternative script to demonstrate <u>lipsher</u> in Marlab without loops, by Stove 
Kremes call array, first column should be integers 1-100. Also spacer column 
1 = transpasse[integers(1,100)]; (11); (11); (12); (13); (13); (14); (15); (15); (15); (16); (17); (17); (17); (17); (17); (17); (17); (17); (17); (17); (17); (17); (17); (17); (17); (17); (17); (17); (17); (17); (17); (17); (17); (17); (17); (17); (17); (17); (17); (17); (17); (17); (17); (17); (17); (17); (17); (17); (17); (17); (17); (17); (17); (17); (17); (17); (17); (17); (17); (17); (17); (17); (17); (17); (17); (17); (17); (17); (17); (17); (17); (17); (17); (17); (17); (17); (17); (17); (17); (17); (17); (17); (17); (17); (17); (17); (17); (17); (17); (17); (17); (17); (17); (17); (17); (17); (17); (17); (17); (17); (17); (17); (17); (17); (17); (17); (17); (17); (17); (17); (17); (17); (17); (17); (17); (17); (17); (17); (17); (17); (17); (17); (17); (17); (17); (17); (17); (17); (17); (17); (17); (17); (17); (17); (17); (17); (17); (17); (17); (17); (17); (17); (17); (17); (17); (17); (17); (17); (17); (17); (17); (17); (17); (17); (17); (17); (17); (17); (17); (17); (17); (17); (17); (17); (17); (17); (17); (17); (17); (17); (17); (17); (17); (17); (17); (17); (17); (17); (17); (17); (17); (17); (17); (17); (17); (17); (17); (17); (17); (17); (17); (17); (17); (17); (17); (17); (17); (17); (17); (17); (17); (17); (17); (17); (17); (17); (17); (17); (17); (17); (17); (17); (17); (17); (17); (17); (17); (17); (17); (17); (17); (17); (17); (17); (17); (17); (17); (17); (17); (17); (17); (17); (17); (17); (17); (17); (17); (17); (17); (17); (17); (17); (17); (17); (17); (17); (17); (17); (17); (17); (17); (17); (17); (17); (17); (17); (17); (17); (17); (17); (17); (17); (17); (17); (17); (17); (17); (17); (17); (17); (17); (17); (17); (17); (17); (17); (17); (17); (17); (17); (17); (17); (17); (17); (17); (17); (17); (17); (17); (17); (17); (17); (17); (17); (17); (17); (17); (17); (17); (17); (17); (17); (17); (17); (17); (17); (17); (17); (17); 
                                                       Nlogic only requires two logical index functions c(mod(1,3) = 0,2) = cellstr('fizz'); c(mod(1,5) = 0,3) = cellstr('buzz');
                                                  %string array for printing
[ char(c(:,1)) spacer char( strcat(c(:,2),c(:,3)) ) ]
                    r with named predicates

(loop for i from 1 to 100 do

(lot (ffiz) (zerog (sod i 1)))

(buz (zerog (sod i 5))))

(forest * '[-[51z]-[-[-04z]-]-[-a-[-] *

fizz buzz (or fizz buzz) i)))
                              Fizz buzz in Oracle PL/SQL.
     The large in Java - generalized to handle any number fizzes, buzzes or other modulus operations public class Fizzibuz [ 
   public class Fizzibuz [ 
   public cestic ust ministrate]] argst [ 
  public cestic ust ministrate]] argst [ 
  public ust ministrate]] a
                                                       paths and advirate and, for any outil made, forced) meanths, resoftened, with of (*);
If such as all 1] models = old | f three or limit the model of the sub-dependence of the s
```

```
Another in PIF - 0 returned from the Modulus is false and a positive value is true. And while we're at E, why not use while? E gets leady
$1 - 1; while ($1 - 100) {
$1 - 1; while ($1 
                   print "(n";
si++;
}
BASIC without IF or Modulo operator (Tested with Commodore BASIC 2.0)
389 pers Anglish per Select operators/concrete and on Commission
320 for all 388 benefactors (Selection Selection Se
                                 Another point of view in terms of performance...

I think the following test

If (theRember is divisible by 3) and (theRember is divisible by 5) then
      If transmiss is discussed by 30 and (transmiss is discussed by 30 than should be that last, and would find 14 times before it is trace, while testing the discussed by 3 only fails twice before it is trace.

First boars in Brash.

             Alternative Fix barz Bash implementation (performs fewer operations than above, so slightly faster): \theta(x) includes \theta(x) = (x) - (x) = 0
\| x - (x) + (x) - (x
                                 If you're doing toerhold still like fitchers over not our, you say care about performance aspects of your code contents on this work but if you are intercedingly content on the content of you are you are you group and print find finitesz bard to do. I've with you will not you y
                                 If bediensering )

**State** | Fig. | State** | Fig. | State** | S
                                 char fb_array[4][0] = {" ", "fizz", "buzz", "fizzbuzz"};
for (i=1; i<=100; i++) {
                                 egrint(ft_array[0], "sd", i);
print(ft_array[0], "sd", i);
print("sc\n", ft_array[1(153) "(1(255) ccl]);
                                 // implementation 2
// 2 if-tests -- 2 mods/2 logical ops per i
                          // 2 it-tests - 2 mon/2 legical ops per
for (isl) (=>000(i=1);

ff ((isl0))

{
    f((isl0))
        printf("star");
        islow printf("star");
        printf("star");
        slow printf("star");
        slow printf("star");
        slow printf("star");
        slow printf("star");
        slow printf("star");
        slow printf("star");
}
                                       // implementation 2
// uses knowledge about incidence of multiples of 3, 5, 15
// up to 3 if-texts and up to 3 mode/3 logical ops per i
// expected -2.75 if-texts and -2.75 mode/logical ops per i
                                 // implementation 4
// 3 if-tests and 4 mods/3 logical ops per i
                                 For each it perform 2 increments, 2 MDTs, 2 adds, 0-2 register write
the time setup up front 2 mods, 2 ift, 0-2 adds/register writes
Courter-based soliton, 80 separation made after the initial setup
like one aliene for arbitrary lower and upper, not just 1 mod 300
Register without write for lower and upper as well.
Let made () {
                                                                                            const int FIZZ_MAMESR = 2;
const int BUZZ_MAMESR = 5;
int lower=1;
int upper=200;
int 1;
                                                                                      The approach is a second of the control of the cont
                                                                               else print("%i\n", i);
fizz_counter++;
buzz_counter++;
}
                          return(0);
                          C++ one-line code without duplicating string literals and without using additional variables. Finctume ciertume string mempace vtrj
                          \begin{cases} &\text{ for each } 1 \\ &\text{ for (if i = 1, 1] (i \le 6007)} & \text{ id i = i, i \le 6007)} \\ &\text{ for (if i = 1, 1] (i \le 6007)} & \text{ id i = i, i \le 6007)} \end{cases} \\ &\text{ for (if i = 1, 1] (i \le 6007)} & \text{ id i = i, i \le 6007)} \end{cases} \\ &\text{ for (if i = 1, 1] (i \le 6007)} & \text{ id i = i, i \le 6007)} \end{cases} \\ &\text{ for (if i = 1, 1] (i \le 6007)} & \text{ id i = i, i \le 6007)} \end{cases} \\ &\text{ for (if i = 1, 1] (i \le 6007)} & \text{ id i = i, i \le 6007)} \end{cases} \\ &\text{ for (if i = 1, 1] (i \le 6007)} & \text{ id i = i, i \le 6007)} \end{cases} \\ &\text{ for (if i = 1, 1] (i \le 6007)} & \text{ id i = i, i \le 6007)} \\ &\text{ for (if i = 1, 1] (i \le 6007)} & \text{ id i = i, i \le 6007)} \\ &\text{ for (if i = 1, 1] (i \le 6007)} & \text{ id i = i, i \le 6007)} \\ &\text{ for (if i = 1, 1] (i \le 6007)} & \text{ id i = i, i \le 6007)} \\ &\text{ for (if i = 1, 1] (i \le 6007)} & \text{ id i = i, i \le 6007)} \\ &\text{ for (if i = 1, 1) (i \le 6007)} & \text{ id i = i, i \le 6007)} \\ &\text{ for (if i = 1, 1) (i \le 6007)} & \text{ id i = i, i \le 6007)} \\ &\text{ for (if i = 1, 1) (i \le 6007)} & \text{ id i = i, i \le 6007)} \\ &\text{ for (if i = 1, 1) (i \le 6007)} & \text{ id i = i, i \le 6007)} \\ &\text{ for (if i = 1, 1) (i \le 6007)} & \text{ id i = i, i \le 6007)} \\ &\text{ for (if i = 1, 1) (i \le 6007)} & \text{ id i = i, i \le 6007)} \\ &\text{ for (if i = 1, 1) (i \le 6007)} & \text{ id i = i, i \le 6007)} \\ &\text{ for (if i = 1, 1) (i \le 6007)} & \text{ id i = i, i \le 6007)} \\ &\text{ for (if i = 1, 1) (i \le 6007)} & \text{ id i = i, i \le 6007)} \\ &\text{ for (if i = 1, 1) (i \le 6007)} & \text{ id i = i, i \le 6007)} \\ &\text{ for (if i = 1, 1) (i \le 6007)} & \text{ id i = i, i \le 6007)} \\ &\text{ for (if i = 1, 1) (i \le 6007)} & \text{ id i = i, i \le 6007)} \\ &\text{ for (if i = 1, 1) (i \le 6007)} & \text{ id i = i, i \le 6007)} \\ &\text{ for (if i = 1, 1) (i \le 6007)} \\ &\text{ for (if i = 1, 1) (i \le 6007)} \\ &\text{ for (if i = 1, 1) (i \le 6007)} \\ &\text{ for (if i = 1, 1) (i \le 6007)} \\ &\text{ for (if i = 1, 1) (i \le 6007)} \\ &\text{ for (if i = 1, 1) (i \le 6007)} \\ &\text{ for (if i = 1, 1) (i \le 6007)} \\ &\text{ for (if i = 1, 1) (i \le 6007)} \\ &\text{ for (if i = 1, 1) (i \le 6007)} \\ &\text{ for (if i = 1, 1) (i \le 6007)} \\ &\text{ for (if i = 1, 1) (i \le 6007)} \\ &\text{ for (if i = 1, 1) (i \le 6007)} \\ &\text{ for (if i = 1, 1) (i \le 60
                          -bitelas

my simple python code:

def isMultipleOf(firstNum, secondNum):
return firstNum s secondNum = 0;
```

```
def fizzBuzz(num):
    if isMultipleOf(num, 3) and not isMultipleOf(num, 5):
        return "Fizz"
                                                             elif isMultipleOf(num,5) and not isMultipleOf(
neturn "Buzz"
                                                        elif isMultipleOf(num,5) and isMultipleOf(num,2):
    return "<u>firsWorz</u>"
else:
    return num
     -10/2.

Think the problem people have with firsthearz in that it denors? "seem" to map exactly to the tree structure that nested if then-slee produces, "to can get a bidianced tree out of it, but one of the mod choices shows up twice in the tree. This is perfectly OK, but haven the impression that it could be done more efficiently. Findence maps to a simple poset. If you want land to describe here to get to the links are you want and one block nests, one done block nests and one block nests are nest positions. The state of the links are possible to any position to we over the state of the links are possible to the links are possible
                                   y's the hallocation tree twents. As a second content of the conten
Here's a version that to me preserves the point structure, via the array I like this because the poset is exposed, and maples you'll want that structure down the road.

[If marrier are, one "rept]

[If the property of the 
                                                             for (i=1; i==185; i==) {
    sprintf(%_army[0][0][0], "%d", i);
    printf(%dn", %_army[1[i37]) [ [i385]][ i(i33) ] );
} return 0;
                              match = 1;
)
if (match) printf("\n");
else printf ("%i\n", 1);
          No. not a poset, because you have to hit "fizz" before "buzz" (you never see "buzzfizz"). Here's a less wasteful distabase version. This is easily changed to accommodate more (or fewer) entries of the form Mizz in mix () (
                                                             const int values = 3; // you can change this const int wordlength = 4; struct numberword
                                                  Control administration of the control of the contro
                                                                                           strong(ring, ");
for (a) (soliton);
for (b) (soliton);
for (b) (soliton);
for (soliton);
fo
Scala spain!

(1 to 100) max ( to 0 )

(2 to 100) max ( to 0 )

(3 to 100) max ( to 0 )

(4 to 100) max ( to 0 )

(5 to 100) max ( to 0 )

(5 to 100) max ( to 0 )

(5 to 100) max ( to 0 )

(6 to 100) max ( to 0 )

(7 to 100) max ( to 0 )

(8 to 100) max ( to 0 )

(9 to 100) max ( to 0 )

(1 to 1
     def fizzBuzz():

while x data or other conditions here
# an ounded to modify the output
for year ounded to modify the output
for year ounded to modify the
first x year (years)
edit x x years (years)
edit x x years (years)
edit years (a)
early profit (a)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              (1...100).to a.fizzbuzz(3, "Fizz").fizzbuzz(5, "Buzz").fizzbuzz(15, "FizzBuzz")
     The without file of fore (believables excluded)

Focciet, tricap(-) dict- we facciet, striap(2,2);

dict(0,0) = 0 = 1,000 (sq.);

dict(0,0) = 0 = 1,000 (sq.);

dict(0,0) = 0 = 0,000 (sq.);

dict(0,0) = 0,000 (sq.);
          or using the same trick, with a dictionary of dictionaries (and so explicit compares); 
we date so hickney-past, hickney-past, fractor, errops-
(in the sound of the second of the secon
                         \label{eq:console.kange(1,100).ToList(1).ForEach(1) of Console.WriteLine(dict(1)) = 0 } [115 - 0](1))
          or using tuples for a more readable code

war dict= new Dictionary-Tuple-bool, bool>, Functiot, string>();
```

T

One liner in Javascript (by CF):

for (war i = 1; i <= 300; i++) console.log((i < 1 ? \*\* : "Fizz") + (i < 5 ? \*\* : "Buzz") || i)

Ny Jone Code - Ny Tajao S Marety

pada centra san antiforogia yan'i

Control State S

if((isMultipul){
printingStuff = Integer.toString(i);
}
System.out.println(printingStuff);

in go (golang) package main

```
import "feet"

Four smile | feet | fe
                   Reguesting the implementations labeled [list/ll] at the top, I don't think it's particularly had when you consider how many toots you need to do on each loop intention. You, it's a list cleakly to have the extra (1% 5) lost inside the (1% 3) "I", but the extra code allows a maximum of two tests per iteration, which is portly efficient. 
Trouvyone has been focusing on degeance, efficiency, or just posting whatever their solution is... Ithought I'd contribute a little list of pattern about to the time of Java.
                                pablic food class filmburkenews {
    int reque;
    int requestion;
    int
                   Fizzbuzfectory_create(s).accept(sixter);

| Fizzbuzfectory_create(s).accept(sixter);
| public static void main(String[] args) {
| If(<u>Fizzbuzfect_runfect()</u>) new Fizzbuzfeunner_(1000).run();;
| }
                                                                                   ConsolePrinter} implements Printer {
   public void print(String s) {
    System.out.println(s);
}
                                                                             Firshurdvistvistor_implement Firshurdvistor_(
grissed brisse griden;
patic Simulari orientation_(Prisse grister) {
patic Simulari orientation_(Prisse grister) {
patic Simulari orientation_(Prisse grister) {
patic sed simulari orientation_(Prisse grister) {
patic sed simulari orientation_(Prisse_)
patic sed simulari orientation_(Prisse_)
patic sed simulari orientation_(Prisse_)
prisse_grist(*Norr))

prisse_grist(*Norr))
                                                                      panite vois vait (Nuzr);

pinite print("Nuzr);

pinite vois visit(Sirabur firburz) {

printer.print("Sirabur);

}

public vois visit(Num num) {

printer.print(Integer.toString(num.getVal())));
                         interface IFizzRuzz {
   public void accept(FizzRuzzWisiter2 visitor);
}
                                      class Fizz implements DFizzBuzz {
    public void accept(FizzBuzzVisitor) {
        visitor.visit(this);
    };
                                      class Ruzz implements BfizzRuzz {
    public void accept[FizzRuzzVisitor] visitor) {
        visitor.visit(this);
    }
                                      class <u>firshors</u> implements IFirshorz {
    public void accept[FirshorVisitor] visitor) {
        visitor.visit(this);
    }
                                class Nor instances TF127Nu22 {
    price date wal |
    public Normal val) {
        thin val = val;
        public Normal val) {
        thin val = val;
        public Normal val) {
        return val;
        public normal val;
        public normal val;
        public void accept(F1270hu79f4iter? visitor) {
        visitor.visit(Nbd))
    }
}
                                                                      A construction of the cons
peters reach)

| Text text formation / front cent formation / front 
                                                                             )

"Fellow must her "/

"Fello
                                                                                                                                                          class FacTestPair; {
  public final int num;
  public final tiss c;
  public final tiss c;
  public FacTestPair; (tin num, Class c) {
    til.out = hum;
  }
}
                                                                                                                                                   state newart = new factostraing(s, num.)
testPair.add(newBair))
for(ScatesPair) for i testPairs) {
   String erfst - tylum(fsp.num, fsp.c);
   if(erfst |= null) return erfstr;
   return null;
}
                                                                                   abstract class WalidatingPrinterListener2 { public abstract void validate(String str); }
                                                                                                                                                          Validator estendo Validation/ristoriatemer/; {
    public String expected)
    public String expected)
    public valid estimate (
    public 
                                                                                                                                                          }
Modificatioprinter? Suplements Printer {
Waldstripprinter? implements Printer {
WaldstripprinterLittener? Littener;
Waldstripprinter[VallsdripprinterLittener] Littener = Litt
                                                                                                                                                          public String run() {
   Walidator validator = new Validator();
   FizzBuzzWisitor2 visitor = new FizzBuzzPrintWisitor2(new ValidatingPrinter2
                                                                                                                                                          validator.setExpected("Fizz");
new Fizz().accept(visitor);
if(validator.getFailed()) return "Failed on Fizz";
                                                                                                                                                          validator.setExpected("Buzz");
new Buzz().accept(visitor);
if(validator.getFailed()) return "Failed on Buzz";
                                                                                                                                                          validator.setExpected("FizzBuzz");
new FizzBuzz().accept(vicitor);
if(validator.getFailed()) return "Failed on FizzBuzz
                                                                                                                                                          validator.setExpected("1");
new Num(1).accept(visitor);
if(validator.setFalled()) return "Falled on Num";
                                                                                          new Test("alitogethernow") {
    public String run() {
        Wildster volidater = new Validator();
        FizeBuzzWisitor2 wisitor = new FizeBuzzPrintVisitor2(new ValidatingPrinter2)
                                                                                                                                                          validator.setExpected("1");
FizzBuzzFactory2.create(1).accept(xisitor);
if(validator.getFailed()) return "Failed on Num";
```

```
validator.setExpected("Fizz");
FizzRuzzFactory_.create(3).accept(sisitor);
if(validator.getFailed()) return "Failed on Fizz";
                                                                                                                               validator.setExpected("Buzz");
FizzBuzzFactory_create(5).accept(visitor);
if(validator.getFailed()) return "Failed on Buzz";
                                                                                                                               validator.setExpected("FizzBuzz");
FizzBuzzFactory_.create(15).accept(visitor);
if(validator.getFailed()) return "Failed on FizzBuzz"
                                                                                                                    return null;
}
     }
                                                       SIGICT (ASSES NEGLE): b, i = 10 - 1, 3) = 0 AND NEGLE): b, i = 30 + 1, 5) = 0 Then 'first Surry' when Negle, i = b, i = 10 + 1, 3) = 0 Then 'first Surry' when Negle, i = b, i = 10 + 1, 3) = 0 Then 'Aury' b, i = 0, 
                                                                  DOD AS $\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\fr
                Note MvSOL allows sorting by a field that ise't selected, hence this works. Some flavours of SOL will only allow you to sort by a column in the SELECT and for these you would have to bring back 2 columns which wouldn't comply with the requirer
                                                            LOCAL Listuation*
501 Listuation*
100 CASS
CASS
CASS
((s.timinater \ 1) = 0) AMD ((s.timinater \ 5) = 0)
7 "Listuation*
CASS ((s.timinater \ 1) = 0) AMD ((s.timinater \ 5) = 0)
7 "First"
                                                                                                                                                                      CASE (m.lnNumber % 5) = 0
7 'Buzz'
                                                            UNITED CONTRACT CONTR
           Python 3 Solution (could be more readable, but I wanted to keep it tiny):
And the functions is also solution var 1-th vehibid c-100(s+1), counted being ft. (br. / bazz, fuzzbazz (B/Cs =-61)); (br. / bazz (B/Cs =-61)); (br. /
                                                 -LINQ one-liner version: former (u \in S | former half | hepsil, 180). Select(i \Rightarrow (i \land B) = 0.7 \frac{trainer}{trainer}; (i \land S) = 0.7 \frac{trainer}{trainer}; (i \land
           <u>Financias</u> — a creas-compiler for Windows, Mac CNN, ICR, Andreid, et al. with highly resultable code:

"Of the code of the co
           Here's an alternative using mod 15 and switch-
repeat with the Number = 1 to 100
sortio 8 - services for a matter at zero
can the state of 15sts * swellist in an
extraction of 15sts * swellist break
and * 12sts * state * final * swellist break
and * 12sts * state * final * swellist break
and * 12sts * state * final * swellist break
and * 12sts * state * final * swellist break
and * 12sts * state * final * swellist *
and * state * state * final * swellist *
and * state * state * final * swellist *
and * state * state * final * swellist *
and * state * s
           end repeat
—-mollington

PHF again:
factor f()(fortil-lat-dil)-+41)(ctn((1-(1852)***-7127**)-1852****-7827**))birkil. PP, 58,(3)
     Python again, but with a Lambdal *gissp*-
for i in range(1,101):

- Lambar r false ff + % r size Tree
ff(x(s)) prior *f22r*
slt(x(s)) prior *f22r*
slt(x(s)) prior *f22r*
           The first thing that came to my mind is uning a bitmank. OI maps to first, 10 maps to buzz, 11 maps to finduzz and 00 maps to everything size. Here it is in powershell: function finduzzo() [

| first | firs
     verite-Output "FizzBuzz") 4
default (Write-Output %1) #80
     This one is nice because you're just counting up, no dividing nec-
function firshors()(

10 + 1.136 | $\frac{1}{2} \frac{1}{2} \frac{1}{2}
                                                 | No. 
           I'd skip the mod 15 altogether, here is an VB.NET example:
For i As Integer = 1 To 100
Dim_line As New System.Text_StringSuilder()
                                                            _line_Append(i.ToString2 & vbTab)

If (i / 2) = Int(i / 3) Then ____
Line_Append("Firz")
                                                            If (i / 5) = Int(i / 5) Then _
_Line.Append("Buzz")
                                                                  Console.WriteLine2(_line)
           setrà = "";
setrà = "Buzz";
```

```
}
print ("setrlsetr2setr3(n");
}
3
QL Server, SELECT query (with recursive CTE):
write cts
46
(
                                SELECT 1 AS num,
           1. AS mod3,
2. AS mod5
untow all.
                       SELECT num + 1,
(num + 1) % 3,
(num + 1) % 5
FROM CTE
WHERE num < 100
     FROM CTE |
| MARKET vam < 100 |
| SELECT nam, |
| CACC MARKET nam2 = modS = 0 TANN "Firstware" |
| MARKET nam2 = 0 TANN "Barry" |
| ESSE CACT(nam AC WARCHAR(18) |
| FROM CTE; |
| FROM CTE; |
        And here's a SQL Server-specific version using subquery instead:
           Now Conditions that no come would never use on a code text If you used the first one and explained it you will probably get hired on further questions asked but will further the code text If you used the first one and explained it you will probably get hired on further questions asked but will further the code text in the code 
                          one profit for (a.) (a. 180) (a.)

| Constitution |
     | -|D|

Compact solution in pythom that doesn't

for i in range(1, 100):

fizz = (000 = 0) * "fizz"

bizz = (000 = 0) * "fizz"

if fizz or buzz'

else:

print(i)
  Not at majestic as some of the leviathan one-liner solutions I've seen above, but perhaps more

-Dom Bridger

Be: Dom Bridger by simple python solution is nearly identical to yours, just a little more comp

for a to require. [1811]

**Granue : low only ***Tigs** one rich* ***Face**

**Fortification** (Times sets 6)**

**Times the 6)*

**Times the 6)**

**Times the 6)*

**Times the 6)**

**Times the 6)*

**Times the 6)**

*
     Took 130° to open editor, code, compile, and run: Factains extrain to the following for the following for (1,1,1,\dots,0) is an always for (1,1,1,\dots,0) if (1,1,1,\dots,0) if (1,1,1,\dots,0) if (1,1,1,\dots,0) point((1,1,1,\dots,0)) f(1,1,1,\dots,0) f(1,1,\dots,0) point((1,1,\dots,0)) return 0 f(1,1,\dots,0) return 0 f(1,1,\dots,0)
firshurz (N. Max) :-
firshurz (N. Max) :-
N == Max, !;
findali(N. wice(M. N), Ws),
show(Ms. N),
Ki is N = 1;
firshurz (Mi. Max).
                                word(fizz, N) :- divisible(N, 2).
word(buzz, N) :- divisible(N, 5).
                             divisible(N, D) :-
X is N mod D,
X = 9.
                                   \begin{aligned} &\mathsf{show}(\{\},\,N) \;:\; \mathsf{writeln}(N),\; \uparrow, \\ &\mathsf{show}(N,\,\,\_) \;:\; \mathsf{atomic\_list\_concat}(Ns,\,\,S),\; \mathsf{writeln}(S)\,. \end{aligned}
                    fizzbuzz from Number to Max :-
Number =< Max, !,
find Nords for Number,
show Nords for Number,
Next is Number + 1,
fizzbuzz from Next to Max.
                                   find Words for Number :-
findsll(Word, use Word for Number, Words).
                                show [] for Number :- writeln Number, i.
show Words for _ :- Words atomic_list_concat String, writeln String.
                             use fizz for Number :- 3 divides Number.
use buzz for Number :- 5 divides Number.
Divider divides Number :-
Remainder is Number mod Divider,
Remainder = 0.
```

I see 2 things that make troubles here. I, there are 2 bits (is it multiple of 3 and is it multiple of 3 and 4 outputs. This is perfect balance. But if we use conditional statements with 2 breaches (like IF), then 3 statements are required to build a tree with 4 lower. This 3rd condition confuses. A way to avoid this is by using bits and arrays:

we we close "file", "fare", "fare

```
var bit1 = !(1%5);
var index = (bit1 << 1) | bit0;
compole.log(a[index] || 1);
                                           2. we've got repeated strings here so optimization thirst makes us to use Fizz and Buzz only once.
                                                                                              for (usr i=1; i<001; i=+) {
    commode.log(((i007)*:"Fizz") + (i057"":"Ruzz")) || i )
}
                                     -Date
What No Pened ye? This rans in Prospected, Delphi and probably more parclaters.
What No Pened ye? This rans in Prospected, Delphi and probably more parclaters with his results and extended of the probability of the p
                                     Nicolai

Here is an attempt with only function calls (in c, mostly stolen and thrown together):

*Saction* catria.b>
                                           //This looks familian'
const char "s[]={
"bd", "bfizz", "bd", "Buzz", "Fizz", "bd", "bd",
"Fizz", "Buzz", "bd", "Fizz", "bd", "bd", "fizzbuzz"
                                                  int last(int i) {
                                                        ;

int main(int i) {

   printf(s[ikk5],i=1);

   printf("\n\n");

   printf("\n\n");

   //either main+0-main or main-(last-main)-last

   return (Emain + (Elast - Emain)*(1/90))(i+1);

}
                                     - Eric

Minimalist Java Solution
int comput = 0;
for(int i=0; i<100; i++)
                                                                                                    output = i;
if(output % 2 = 0){
system.println.out("fizz");
output = mill)
if(output % 5 = 0){
system.println.out("buzz");
output = mill)
system.println.out(output)
                               Collimans Tourisation and the Collimans Tourisation of the Collimans Tourisation and the Collima
                                                                                                          tions to have to gaining it oriented.

Description where all all the contract of the contract 
                                                                                                    Sceen III: Where fizz is checked for
Juliet: Art the remainder of the quotient of yourself the same as Othelio?
Rameo: If so, let us proceed to Scene VI.
                                                                                              Scene IV: Whence buzz is interrogated
Juliet: Art the remainder of the quotient of yourself the same as Mercutio?
Romeo: If so, let us proceed to Scene VII
                                                                                              Rement IT No., let us proceed to Score VII

Come Visibers a one time is created

[Borne Xi. Note: I would be a compared

[Borne Xi. Note: I would be a compared

[Borne Xi. Note: I would be a commission of the compared of t
                                                                                              Size of L. De motion of the control 
                                                                                              makes the proposed to your proposed to your proposed to you for you for your proposed to you for your proposed you will not you for your proposed you will not you for your proposed you for you for your proposed you for you for your proposed you for you will not you for you for your proposed you for you you for y
                                                                                                          Scene VIII: The End
Juliet: I hate you all
[Exxect]
                                                                                                          ..100) {

sout = (1,52 == 0) ? "fizz" : "";

sout = (1,55 == 0) ? "fazz" : "";

sout = (1,52 == 0) ? "fazz" : "";

sout = (5,52 == 0) ? "fact" : "";

sout = (5001 e) "") ? 1 : : sout;

print "sout \n";
                                           for($n=1; $n<101; $n++){
    echo ($n\lambda=0 & $n\lambda=0 ? '\frac{6122 \text{Rezz}}{122 \text{Rezz}} ' : ($n\lambda=0 ? '\text{buzz} ': ($n\lambda=0 ? '\text{fizz} '\text{sp.* ''})))</pre>
                                           Yet another Java implementation. Nothing unique here... but this exact method has not already been done above
The first and a scale | in a sc
                               ] Were about an Objective C version? Just started to code in it and it seemed fun.

int | = 100, int multiplier = 0, Nichonalscherny *menkrup = (INSMitzhilokrup serny NichObjects @1, @2, @'Fizz', @4, @'Hang', @'Fizz', @7, @8, @'Fizz', @7hang', @11, @'Fizz', @13, @14, @'Fizzhang', milly

forting = 1, y-c-1; = 11

| **International and the control of 
                                                                                              if(jul5 == 0){
    j == 15;
    i == 15;
    multiplier += 15;
}
                                                                                       main() {
    for (min + 1 | m + 1 | m + 1 |
    for (min + 1 | m + 1 | m + 1 |
    for (min + 1 | m + 1 | m + 1 |
    for (min + 1 | m + 1 | m + 1 |
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   for (min + 1 |
   for 
                                           }
Martin "Sunny" Svandelik
                                     Original Author unknown. Found under the name "FizzBuzz of the Christ" in Python
for i in range[1,141]:
print(*[1228uz*[1*143*4.8-i**46] or i)
```

```
SQL Server CLR Example
Executes with just :
select * from dbo.Fizzbazz()
               Defined by a SQL CLR assembly function
                                             uring System;
uring System.Collections;
uring System.Collections.Generic;
uring System.Ling;
uring System.Ling;
uring System.Ling;
uring Microsoft.SqlServer,Server;
                                                                                   public static void FillRaws?(dbject obj, out SqlString) answer) { answer = (string) obj; }
                                                                                           pablic class Asserbilection): [Consents { \{i,j\}, 
           -AFritch

Here's a nice friendly version in kah (KornShall). For the few people above interested in "woot" and the like, it should be obvious that other cases are pretty easy to add. -krz
               integer i for ((i = 1; i \leftarrow 300; +*i)) for ((i = 1; i \leftarrow 300; +*i)) for ((i + 3)) for 6**i = 1 for 6**i
           BASIC, no MOD required
for inl to 100
ter per
if ((i/2)=anti/2)) then bet pe-pe-"fire"
if ((i/2)=inti/2)) then bet pe-pe-"fire"
if pe then print pe else print i
next i
           Linkings:
With borred at hunds. Cut to thinking about how most Python examples use this-Feature or that-Feature, but I have yet to see any of them use a string multiplier.
So I wrote a little desp. It is not profix and for now it's a pity, but boy, that's what I got.
                                         #1/usr/bin/python
# simple Fizzkuzz
                                         fizz = lambda x: ((xh3)==0)
hurr = lambda x: ((xh5)==0)
                                         def emitSizzRuzz(indes):
   if fizz(index) = buzz(index):
        return (fizz(index) * u*fizz*) + (buzz(index) * u*buzz*)
        else:
        return index
                                         for myiter in range(1,100):
print(emitFizzBuzz(myiter))
       avery.p. payneig gmail.com
Found this in a link on HN, decided to give it a shot with the shortest VBScript I could come up with in 5 mins
                                                 this in a link on HN, decided to give it a shot with the shortest VI for ispr = 1 to 100 per short size of 100 per short siz
       opiti@gmail.com

FizzRazz in Python w/ Generators

— inspired by @dabeaz

def fizzbuzz ima.,non-bill);

"White proposition.,non);

"It i v l = 0; onless = "Sazz"

yiels what it white dest = "Sazz"

yiels what it white dest = "fizz"

for non-bill it white dest = "Sazz"

grids "Sazz" (non-bill, bury);
SQL-classes

DECLARS (6 INT

SET (6-1)

BEGIN

IF (8 \ 3 \ 1 \ 1) and

IF (8 \ 3 \ 1 \ 1) and

IF (8 \ 3 \ 1 \ 1) and

IF (8 \ 3 \ 1 \ 1) and

IF (8 \ 3 \ 1 \ 1) and

IF (8 \ 3 \ 1 \ 1) and

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IF (8 \ 3 \ 1 \ 1) and

IF (8 \ 3 \ 1) and

IF (8 \ 3 \ 1 \ 1) and

IF (8 \ 3 \ 1) 
           Accounts More Ruley Down to Ht characters (difficult to reduce further without the "leady" turnary operator that Grossy seems to have... which books very interesting)
(1..101.aux)(1(16)-0564, 46-05), (1000 to 16)-07(1(10) to 12)-07(1(10) 
           Statisty differents:

A Company of the Company of t
           Python down to 51 characters using the "auto print" of the python console, 57 with a print statement for in range(100):93/37**Fizz**495/4**Bazz*or*i+1
   for in manage(00)(NLOP*Para**(NLOP*Para**(n)) This is the shortest you can go in pythom 2.71 below: Effect (0.14.2): these pattern matching with guards will defined by Farabase 0 and (0.14) = 0.00 for (
       Apple Swift - written for clarity not obforcation. Prote into a Playground' page, use Vere's Assistant Editor's Show Assistant Editor to display the results of the printing for a in (1...18).
                                             case _ where n/3 = 0 66 n/5 = 0:
println("<u>FireBurn</u>")
                                         case _ where nA3 == 0:
println("Fizz")
                                             case _ where nAS == 0:
println("Buzz")
           An example of FizzBuzz being written from the ground up using Test-Driven Development and Ruby: http://youtu.be/CHTep2zOVAc
                                         n = 1
while n < 101:
if m3 = 0 and m45 == 0:
print "fizzbezz"
                                             else if m3 = 0:
print "fizz"
                                             else if nAS == 0:
print "buzz"
                                     else:
print n
n += 1
           Actually another way to do this is...
boolean flag = true;
                                                                                   for(int i=0;i<26;i++){
    if(1%3=0){
        System.out.print("Fizz");
        flag=falce;
                                                                                                                         f (flag)
System.out.print(i);
```

```
[Moved the above from the Fuziliuz page to here on 2014-07-07.]

//ione bit not idea but in (
//ionetic notice but in (
//
            // Another bit-mask in C
// Gary
                  public class FuzzBuzz2 {
    public static void main(String {| args}{
        for(int i = 1 ; i < 101; i++){
    }
}</pre>
                                                 }
Pythom... for i in range(1,101):
burz = (not i % 5) * "Burz"
firz = (not i % 3) * "Firz"
                                                                    if fizz or buzz:
print fizz-buzz
else:
print i
            Scale again, this one with only 3 tests. Here is where \Gamma m missing those ternary ifs - jmt 1 to 100 map (\alpha \rightarrow \infty ) \Gamma (\alpha \rightarrow \infty) (\Gamma (\alpha \rightarrow \infty)) \Gamma (\alpha \rightarrow \infty) (\Gamma (\alpha \rightarrow \infty)) \Gamma (\alpha \rightarrow \infty)) \Gamma (\alpha \rightarrow \infty) (\Gamma (\alpha \rightarrow \infty)) \Gamma (\alpha \rightarrow \infty) (\Gamma (\alpha \rightarrow \infty)) \Gamma (\alpha \rightarrow \infty)) \Gamma (\alpha \rightarrow \infty) (\Gamma (\alpha \rightarrow \infty)) \Gamma (
                                                                    // INTERNAL FACTS
// Brooks will create a POJO with getters, setters, constructors and
// correctly implemented hashcode/equals
                                                              declare Fizziuzz
count : int
end
                                                              declare Message
text : String
end
                                                                    // R U L E S -----
                                                              rule "Count is divisible by 3, and not by 5"

bless "firshor: [Firshor(count \ 2 = 0, count \ 5 i= 0)

then isser([see Message("First"));

end
                                                              end

rule "Count is divisible by 5, and not by 3"
when

firstNors: (irrefer(count % 3 to 8, count % 5 = 6)

intert(now Message("Auzz"));

and
                                                 and "Cases is distrible by 3 and by 5" of the state of t
                                                        rule "Print <u>[irobrz</u> counter"
when
sectoge: Netspar()
then
System.out.print(conseasape.getText());
end
                                                              rule "Increment the <u>FizzBuzz</u> counter last" salience -1 when
                                                              salisece -1
when
scountipTo: Integer()
sfizzBuzz: (ExrBuzz(count -> scountipTo)
then
sfizzBuzz.count = sfizzBuzz.count + 1;
update(sfizzBuzz);
end
                                                              rule "At the end remove all facts"
                                                              when scounts[i]s : Isteper() 
#fizibluz : [izibluz(count > scounts]sTo)
then retract(sCounts[sTo);
end
      Another simple one in C.W. for (int i = 1; i < -100; i + 0) \{ \\ if (1; k \ge -0) \{ consists write \{ Tarr \} \} \\ if (1; k \ge -0) \{ consists write \{ Tarr \} \} \\ if (1; k \ge 1 + 0) if (i : k : k - 0) \{ consists write (i.Tofring_{i}^{2}(i)) \} \\ consists write (k = 1) \}
A simple jevs program for fizz bezz will be—
import com people common how-Strings import com sun org apache-salan internal solic compiler attl. Util,
class [primary]

(these primary)

(training to the compiler and the compiler attleted to the com
                                                        public String printFizzRuzz(int i){
String fizzRuzz="";
                                                                    fizzbezz = fizzbezz+fizz(i);
fizzbezz = fizzbezz + bezz(i);
                                                                          return fizzbuzz;
                                                              public String fizz(int 1){

If(x\d) ==0
    return "FIZZ";

olse return "";

public String buzz(int 1) {

If(x\d) == 0)
```

```
This code also ensures that those numbers which are divisible by 3 and 5 should only output "furniture" instead of three outputs."

for it is ranged; (100)

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| (100) | (100) | (100) |

| (100) | (100) | (100) |

| (100) | (100) | (100) |

                                                                                                                                                               print "fizz"
                                                                      if(155=0):
    if(1515)=0):
    print "burz"
            Scala yet again, this time with 75% more obfuscation using both an implicit and anonymous functions -just we practic Last((bit = but)) = Last; or practic(), to practic('Mar'), to pract
            Another play solution which avoids an explicit loop, it uses the array map function to call an anneymous function, having used the range function to create and array with elements contain.

Not ready mediate though as just for ammenment.

**ray_map(mexican(s)(mexican(s)(mexican(s))(mexican(s))(mexican(s))(mexican(s))(mexican(s))(mexican(s))(mexican(s))(mexican(s))(mexican(s))(mexican(s))(mexican(s))(mexican(s))(mexican(s))(mexican(s))(mexican(s))(mexican(s))(mexican(s))(mexican(s))(mexican(s))(mexican(s))(mexican(s))(mexican(s))(mexican(s))(mexican(s))(mexican(s))(mexican(s))(mexican(s))(mexican(s))(mexican(s))(mexican(s))(mexican(s))(mexican(s))(mexican(s))(mexican(s))(mexican(s))(mexican(s))(mexican(s))(mexican(s))(mexican(s))(mexican(s))(mexican(s))(mexican(s))(mexican(s))(mexican(s))(mexican(s))(mexican(s))(mexican(s))(mexican(s))(mexican(s))(mexican(s))(mexican(s))(mexican(s))(mexican(s))(mexican(s))(mexican(s))(mexican(s))(mexican(s))(mexican(s))(mexican(s))(mexican(s))(mexican(s))(mexican(s))(mexican(s))(mexican(s))(mexican(s))(mexican(s))(mexican(s))(mexican(s))(mexican(s))(mexican(s))(mexican(s))(mexican(s))(mexican(s))(mexican(s))(mexican(s))(mexican(s))(mexican(s))(mexican(s))(mexican(s))(mexican(s))(mexican(s))(mexican(s))(mexican(s))(mexican(s))(mexican(s))(mexican(s))(mexican(s))(mexican(s))(mexican(s))(mexican(s))(mexican(s))(mexican(s))(mexican(s))(mexican(s))(mexican(s))(mexican(s))(mexican(s))(mexican(s))(mexican(s))(mexican(s))(mexican(s))(mexican(s))(mexican(s))(mexican(s))(mexican(s))(mexican(s))(mexican(s))(mexican(s))(mexican(s))(mexican(s))(mexican(s))(mexican(s))(mexican(s))(mexican(s))(mexican(s))(mexican(s))(mexican(s))(mexican(s))(mexican(s))(mexican(s))(mexican(s))(mexican(s))(mexican(s))(mexican(s))(mexican(s))(mexican(s))(mexican(s))(mexican(s))(mexican(s))(mexican(s))(mexican(s))(mexican(s))(mexican(s))(mexican(s))(mexican(s))(mexican(s))(mexican(s))(mexican(s))(mexican(s))(mexican(s))(mexican(s))(mexican(s))(mexican(s))(mexican(s))(mexican(s))(mexican(s))(mexican(s))(mexican(s))
Figure 2 and 1 and
                                                                      rts ;return
| String literals (in '+128' ascii, Apple II style)
                                                   ; string base offset

sFizz .az - "Fizz"
sRuzz .az - "Buzz"
sR. .az - 413
;
Variable Section
                                                                            VBA Functions by Gary Lee
With If statements
Function Fleaz@lagNum As Long) As String
If legism = 0 Teo. Str. function
If legism = 0 Teo. Str. function
If legism = 0.3 = Teo. Str. v = "Str."
If legism = 0.3 = Teo. Str. v = "Str."
If legism = 0.3 = Teo. Str. v = Union.
      That Function
Will Nominion States and States
Will Nominion Case Select

Hamiltonian Flazza/Selection States
His States and States
His His States
His States
His His States
His His His His His His Hi
            Here is a simple C one-liner:  for \{ \text{ int } i = 1; \ i < 300; \ i++ \} \ print( \ "40/40_fizz\/400z2/400z2z)/401zzz2/4^* + (i \ "(((105)-0)<1 \ | \ ((105)-0))), \ i \ ); \ i \ ); \ begin{picture}[t]{0.95\textwidth} \put(0.95) \put(0.

    Good* programmers can easily recognize the 4 if-then conditionals. The one liner is just a compact and obtuse version of the canonical verbose version.

                                                         (*) The purpose of this test is to dete
            Pretty clean <u>liveScript</u> version:

for i from 1 to 100

cutput 1 is 0 then output ++ "Fizz"

if i % 5 is 0 then output ++ "Razz"

if not output then output += "Razz"

if not output then output = 1

cutenils.log output
                                                               #1/bis/sh
yes '<u>FizzBuzz</u>' | tr -d '\s'
      Scala one-liner, similar to the C one-liner above - jmt for (n \leftarrow 1 \text{ to 200}) \text{ priorits}(\text{ist}((15, \frac{n_1^2 + n_2^2 + n_3^2}{n_1^2 + n_3^2}), (2, \frac{n_1^2 + n_3^2}{n_1^2 + n_3^2}), find(t \Rightarrow n \in t_n^2 = 0).\text{priorits}((0, n. \text{unfiring}))_{-,2})
      After bushing at so many answers, I figured, I could do another in less code than most using 1. for long 2, modulous operator 3, print the answers Regards, Emiliano Gaytan (Microbian Answers to problem (Microbian Answers to problem (Microbian Answers)) and the first of the firs
            Quark Factor solutions, after all the sides was to do to

: is 3(n-n)[3 \mod ] keep [drop "fizz" ] unless;

: is 5(n-n)[5 \mod ] keep [drop "buzz" ] unless;

: is 15(n-n)[15 \mod ] keep [drop "fizzbuzz"] urless;
            100 iota [ is15 [ print ] [ is5 [ print ] [ is3 [ print ] [ . ] if ] if ] if ] each
Dave Carlton
            CategoryNion

Shortest Buly version (shortest any language?) yet, I think at 64 characters including the pote-
pot (1.2) in sup(||x|^2||x|^2||x||)(||x|^2||x|^2||x|^2||x|^2||x|^2||x|^2||x|^2||x|^2||x|^2||x|^2||x|^2||x|^2||x|^2||x|^2||x|^2||x|^2||x|^2||x|^2||x|^2||x|^2||x|^2||x|^2||x|^2||x|^2||x|^2||x|^2||x|^2||x|^2||x|^2||x|^2||x|^2||x|^2||x|^2||x|^2||x|^2||x|^2||x|^2||x|^2||x|^2||x|^2||x|^2||x|^2||x|^2||x|^2||x|^2||x|^2||x|^2||x|^2||x|^2||x|^2||x|^2||x|^2||x|^2||x|^2||x|^2||x|^2||x|^2||x|^2||x|^2||x|^2||x|^2||x|^2||x|^2||x|^2||x|^2||x|^2||x|^2||x|^2||x|^2||x|^2||x|^2||x|^2||x|^2||x|^2||x|^2||x|^2||x|^2||x|^2||x|^2||x|^2||x|^2||x|^2||x|^2||x|^2||x|^2||x|^2||x|^2||x|^2||x|^2||x|^2||x|^2||x|^2||x|^2||x|^2||x|^2||x|^2||x|^2||x|^2||x|^2||x|^2||x|^2||x|^2||x|^2||x|^2||x|^2||x|^2||x|^2||x|^2||x|^2||x|^2||x|^2||x|^2||x|^2||x|^2||x|^2||x|^2||x|^2||x|^2||x|^2||x|^2||x|^2||x|^2||x|^2||x|^2||x|^2||x|^2||x|^2||x|^2||x|^2||x|^2||x|^2||x|^2||x|^2||x|^2||x|^2||x|^2||x|^2||x|^2||x|^2||x|^2||x|^2||x|^2||x|^2||x|^2||x|^2||x|^2||x|^2||x|^2||x|^2||x|^2||x|^2||x|^2||x|^2||x|^2||x|^2||x|^2||x|^2||x|^2||x|^2||x|^2||x|^2||x|^2||x|^2||x|^2||x|^2||x|^2||x|^2||x|^2||x|^2||x|^2||x|^2||x|^2||x|^2||x|^2||x|^2||x|^2||x|^2||x|^2||x|^2||x|^2||x|^2||x|^2||x|^2||x|^2||x|^2||x|^2||x|^2||x|^2||x|^2||x|^2||x|^2||x|^2||x|^2||x|^2||x|^2||x|^2||x|^2||x|^2||x|^2||x|^2||x|^2||x|^2||x|^2||x|^2||x|^2||x|^2||x|^2||x|^2||x|^2||x|^2||x|^2||x|^2||x|^2||x|^2||x|^2||x|^2||x|^2||x|^2||x|^2||x|^2||x|^2||x|^2||x|^2||x|^2||x|^2||x|^2||x|^2||x|^2||x|^2||x|^2||x|^2||x|^2||x|^2||x|^2||x|^2||x|^2||x|^2||x|^2||x|^2||x|^2||x|^2||x|^2||x|^2||x|^2||x|^2||x|^2||x|^2||x|^2||x|^2||x|^2||x|^2||x|^2||x|^2||x|^2||x|^2||x|^2||x|^2||x|^2||x|^2||x|^2||x|^2||x|^2||x|^2||x|^2||x|^2||x|^2||x|^2||x|^2||x|^2||x|^2||x|^2||x|^2||x|^2||x|^2||x|^2||x|^2||x|^2||x|^2||x|^2||x|^2||x|^2||x|^2||x|^2||x|^2||x|^2||x|^2||x|^2||x|^2||x|^2||x|^2||x|^2||x|^2||x|^2||x|^2||x|^2||x|^2||x|^2||x|^2||x|^2||x|^2||x|^2||x|^2||x|^2||x|^2||x|^2||x|^2||x|^2||x|^2||x|^2||x|^2||x|^2||x|^2||x|^2||x|^2||x|^2||x|^2||x

Array index past the end gives nil
"#{nil}" is empty string
nil is falsey and any string is truthy
puts outputs arrays with one entry per line
```

```
C version using a single puts statement and noted ternary operators. the order of the conditional tests has been roughly optimized for faster execution.

#include contain.b-
int making (
include contain.b-
include contain.
Case \inf\{1\}:

\{a : 1\} \ i < 100, i <
```