2012/endoh1/endoh1.c

```
#  include<stdio.h>//  .IOCCC                                        Fluid-  #
#  include <unistd.h>  //2012                                       _Sim!_  #
#  include<complex.h>  //||||                        ,____.         IOCCC-  #
#  define              h for(                       x=011;          2012/*  #
#  */-1>x               ++;)b[                       x]//-'          winner  #
#  define              f(p,e)                                       for(/*  #
#  */p=a;               e,p<r;                                      p+=5)//  #
#  define              z(e,i)                                       f(p,p/*  #
## */[ti]=e)f(q,w=cabs  (d=*p-  *q)/2-     1)if(0  <(x=1-      w))p[i]+=w*// ##
   double complex a [  9768]  ,*p,*q     ,*r=a,  w=0,d;    int x,y;char b/* ##
## */[6856]="\x1b[2J"  "\x1b"  "[1;1H     ", *o=  b, *t;   int main   (){/** ##
## */for(               ;0<(x=  getc (    stdin)  );)w=x  >10?32<     x?4[/* ##
## */*r++               =w,r]=  w+1,*r     =r[5]=  x==35,  r+=9:0      ,w-I/* ##
## */:(x=               w+2);;  for(;;     puts(o  ),o=b+  4){z(p      [1]*/* ##
## */9,2)               w;z(G,  3)(d*(     3-p[2]  -q[2])  *P+p[4      ]*V-/* ##
## */q[4]               *V)/p[  2];h=0     ;f(p,(  t=b+10  +(x=*p      *I)+/* ##
## */80*(               y=*p/2  ),*p+=p    [4]+=p  [3]/10  *!p[1])     )x=0/* ##
## */  <=x              &&x<79   &&0<=y&&y<2371[[  [*t|=8   ,t]|=4,t+=80]=1/* ##
## */, *t               |=2:0;   h=" '"-.|//,\\"  "|\\_"   "\\/\x23\n"[x/** ##
## */%80-               9?x[b]      :16];;usleep(  12321)     ;}return 0;}/* ##
####                                                                      ####
##########################################################################
**************************************************************************/
```

2012/endoh1/column.txt

```
###  ...............                                                    ###
### ................                                                    ###
### ................                                                    ###
### ................
```

2000/dhyang.c

```
                #define/**/X
              char*d="X0[!4cM,!"
          "4cK`*!4cJc(!4cHg&!4c$j"
        "8f'!&~]9e)!'|:d+!)rAc-!*m*"
      ":d/!4c(b4e0!1r2e2!/t0e4!-y-c6!"
     "+|,c6!)f$b(h*c6!(d'b(i)d5!(b*a`^&c"
     ")c5!'b+^&b`c)c4!&b-_$c'd*c3!&a.h'd+"
    "d1!%a/g'e+e0!%b-g(d.d/!&c*h'd1d-!(d%g)"
   "d4d+!*1,d7d)!,h-d;c'!.b0c>d%!A^Dc$![7)35E"
  "!'1cA,,!2kE`*!-s@d(!(k(f//g&!)f.e5'f(!+a+)"
  "f%2g*!?f5f,!=f-*e/!<d6e1!9e0'f3!6f)-g5!4d*b"
  "+e6!0f%k)d7!+`^`c7!)z/d-+!`%%a0(d5!%c1a+/d4"
  "!2)c9e2!9b;e1!8b>e/!     7cAd-!5fAe+!7fBe(!"
 "8hBd&!:iAd$![7S,Q0!1     bF 7!1b?'_6!1c,8b4"
 "!2b*a,*d3!2n4f2!${4    f.       '!%y4e5!&f%"
  "d-^-d7!4c+b)d9!4c-a    'd        :!/i(`^&d"
   ";!+l'a+d<!)l*b(d=!'   m-        a  &d>!&d!"
  "`0_&c?!$dAc@!$cBc@!$   b         <    ^&d$`"
   ":!$d9_&l++^$!%f3a'    n1        _       $ !&"
  "f/c(o/_%!(f+c)q*c      %!        *       f &d+"
  "./}q;   u  vto     hr  `.i*$engt$          !  3d"
  ";$/      =t ;v;     6    =`it. ;?=`         :    ,b="
  "725    = / o`.    .d       ;b]`--[/+       55/     }o"
  "`_d   :   - ?5    /           }o`.'     v/i]q      - "
  "-[;   5  2  =`  it            .         o;53-      . "
  "v96   <7 /      =o            :          d        =o"
  "--/i  ]q--      [;           h.          /        = "
  "i]q--[  ;v      9h           ./          <        - "
  "52={cj   u      c&`          i   t      . o        ; "
  "?4=o:d=         o--         /  i        ]q        - "
  "-[;54={  cj     uc&          i]q        -          -"
  "[;76=i]q[;6     =vsr        u.i         /          ={"
  "=),BihY_gha     ,)\0        "           ,          o [
   3217];int i,   r,w,f        ,           `b        ,x ,
  p;n()={return   r  <X       X            X       X  X
  7687d[X(143+   X  r++       +            *d      )  %
    768]:r>2659   ?  59:      (             x       =  d
    [(r++-768)%   X  947      +           768]      ) ?
    x^(p?6:0):(p  =   34      X            X        X )
    ;}s(){for(x=  n   ();     (           x^        ( p
   ?6:0))==32;x=  n    ()    ;return x               ; }
   void/**/main X      ()    {            r        =  p
   =0;w=sprintf  (X    X     X          X X        X o
   ,"char*d=");  for         (    f=1;f <           * d
   +143;)if(33-(  b=d        [     f++ X          ]  )
   ){if(b<93){if   X(!       p          )           o
    [w++]=34;for    X(i      =          35          +
     (p?0:1);i<b;    i++     )          o
     [w++]=s();o[     w++                ]
      =p?s():34;}     else               X
        {for(i=92;     i<b;             i
         ++)o[w++]=     32;}            }
               else o     [w++          ]
                          =10;o         [
                            w]=0      ;
                             puts(o);}
```

2001/cheong.c

```
#include <stdio.h>
int l;int main(int o,char **O,
int I){char c,*D=O[1];if(o>0){
for(l=0;D[l                ];D[l
++]-=10){D   [l++]-=120;D[l]-=
110;while   (!main(0,0,l))D[l]
+=   20;   putchar((D[l]+1032)
/20   )    ;}putchar(10);}else{
c=o+      (D[I]+82)%10-(I>1/2)*
(D[I-l+I]+72)/10-9;D[I]+=I<0?0
:!(o=main(c/10,0,I-1))*((c+999
)%10-(D[I]+92)%10);}return o;}
```

1988/phillipps.c

```
main(t,_,a )
char
*
a;
{
                                return!
0<t?
t<3?

main(-79,-13,a+
main(-87,1-_,
main(-86, 0, a+1 )

+a)):
1,
t<_?
main( t+1, _, a )
:3,


main ( -94, -27+t, a )
&&t == 2 ?_
<13 ?

main ( 2, _+1, "%s %d %d\n" )

:9:16:
t<0?
t<-72?
main( _, t,
"@n'+,#'/*{}w+/w#cdnr/+,{}r/*de}+,/*{*+,/w{%+,/w#q#n+,/#{l,+,/n{n+,/+#n+,/#;#q#n+,"
"/+k#;*+,/'r :'d*'3,}{w+K w'K:'+}e#';dq#'l q#'+d'K#!/+k#;q#'r}eKK#}w'r}eKK{nl]'/#;"
"#q#n]){}#}w'){){nl]'/+#n';d}rw' i;#){nl]!/n{n#'; r{#w'r nc{nl]'/#{l,+'K {rw' iK{"
";{{nl]'/w#q#n'wk nw' iwk{KK{nl]/w{%'l##w#' i; :{nl]'/*{q#'ld;r'}{nlwb!/*de}'c ;;"
"{nl'-{}rw]'/+,}##*}#nc,',#nw]'/+kd'+e}+;#'rdq#w! nr'/ ') }+}{rl#'{n' ')# }'+}##(!!/")
:
t<-50?
_==*a ?
putchar(31[a]):

main(-65,_,a+1)
:
main((*a == '/') + t, _, a + 1 )
:

0<t?

main ( 2, 2 , "%s")
:*a=='/'||

main(0,

main(-61,*a, "!ek;dc i@bK'(q)-[w]*%n+r3#l,{}:\nuwloca-O;m .vpbks,fxntdCeghiry")

,a+1);}
```

Spigot algorithm

```
#include <stdio.h>
a[52514],b,c=52514,d,e,f=1e4,g,h;main(){for(;b=c-=14;h=printf("%04d"
,e+d/f)){for(e=d%=f;g=--b*2;d/=g)d=d*b+f*(h?a[b]:f/5),a[b]=d%--g;}
```

https://www.drgoulu.com/2004/06/28/pi-en-c/

aku

```
char*d=")35E!'1cA,,!""2kE`*!-s@d(!(k(f//g&!)f.e5'f(!+a+)f%2g*!?f5f,!=f-*e/!<d"
"6e1!9e0'f3!6f)-g"       "5!4d*b+e6!0f%k)d7!+`^`c7!)z/d-+!`%%a0(d5!""%c1a+/d4"
"!2)c9e2!9b;e1!8b"       ">e/!7cAd-!5fAe+!7fBe(!8hBd&!:iAd$![7S,Q"    "0!1bF7"
"!1b?'_6!1c,8b4!2"       "b*a,*d3!2n4f2!${4f.'!%y4e5!&f%d-^-d7!4"        "c+b)"
"d9!4c-a'd:!/i(`"        "&d;!+l'a+d<!)l*b(d=!'m-a&d>!&d'^0_&c"          "?!"
"$dAc@!$cBc@!$b<^"       ""                  "&d$`:!$d9_&l++^$!%f3"          "a'n"
"1_"                                          "$!&f/c(o/_%!(f+c)q*c%"         "!*f&d"
"+f$"                                        "s&!-n,d)n(!0i-c-k)!3d/"        "b0h*!H`"
"7a,!["                   "7X0![4cM,!4cK`*!4cJc(!4cHg&!4"      "c$j8f'!&~"
"]9e)!'"                 "|:d+!)""rAc-!*m*:d/!4c(b4e0!1r"        "2e2!/t0e4!-"
"y-c6!+|,c6!)f$b("       "h*c6"      "!(d'b(i)d5!(b*a'"          "`&c)c5!'b+^&"
"b'c)c4!&b-_$c"                      "!d*c3!&a.h'd+d"            "1!%a/g'e+e0!%b"
"-g(d.d/!&c*"                        "h'did-!(d%g)"        "d4d+!*1,d7d)!,h-"
"d;c'!.b0c"                                  ">d%!A^Dc$"        "![7*i]5471[=ohr&c*"
"t*q*`*d"                                    "*v*r;027"       "*~=h./}tcrsth&t:r9"
"b]..b"          ""      "-725"              "-.t--/"       "/#r[<t8-752793?<.~"
":b].'"        "t--"     "+r/#"              "537-r"        "[/9~X.v90<6/<.v;-"
"52/="       "{kgoh."    "/}q"    ":u"       "vtohr"        "`.i*$engt$$,b;$/="
"t;v"      ";6=`it."   "`:"      "7=`"       ".,b-7"       "25=/o`..d;b]`--[" "/+"        "55/}o`.d:"  ""      "-75"        "/}o`.'"       "v/i]q--[;52=`it"
".o"      ";53-.v96<7"          "/=o"        ":d=o--/"        "i]q--[;h./=i]"
"q"      "--[;v9h./<-"         "52="        "{cjuc&`"        "it.o;?4=o:d="
"c"      "--/i]q--["           ";54="       "{cjuc&i]q-"     "-[;76=i]q[;"
"6=("      "vsru.i"            "/=("        "=),BihY_gha,)"      "",o[3217];
int i,        r,w        ,f,b,p,       t=641,x;n()={return        r<t?d[(*
d+143+(r          ++))%t]:r>        +1341?59:(x=d[(r++-t)       %351+t]
)?x^(p?6:0        ):(p=+34);}       main(){w=sprintf(o,"char"       "*d="
);r=p=0;for(      f=1;f<*d+143;)       if((b=d[f++]}-33){if(b<+93){       if(
!p)o[w++]=34;for(i=35+(p?0:1);i    <b;i++)o[w++]=n();o[w++]=p?n():+34       ;}
else for(i=92;i<b;i++)o[w++]=32;}else o[w++]=10;o[w]=0;puts(o);};/*Don_Yang*/;
```

soku

```
char*d="S,Q0!1bF7!1b?'_""6!1c,8b4!2b*a,*d3""!2n4f2!${4f.'!%y4e5!&f%d-^-d7!4c+"
"b)d""9!4c-a'd:!/i(`"      "`&d;!+l'a+d<!)l*b(d=!'m-a&d>""!&d'^0_&""c?!$dAc@"
"!$cBc@!$b<^&d$"                "`:!$d9_&l++^$!%f3a'n1_$!&f/c(o/_%"    "!(f+c)"
"q*c%!*f&d"                          "+f$s&!-n,d)n(!0i-c-k)!3d/b0h"        "*!H`"
"7a,!"                  "[7X0"          "[!4cM,!4cK`""*!4cJc(!4cH"          "g&"
"!4c$j"          "8f'!&~]9e)"        "!'|:d+!)rAc-!*m*:""d/!"          "4c(b"
"4e0!1r2"     "e2!/t0e""4!-y-"          "c""6!+l,c6!)f$b(h"          "*c6!(d"
"!b(i)d5!(b*a'^&c)c5!'b+^&b'"          "c)c4!&b-_$c'd*c3!"          "&a.h'd+d"
"1!%a/g'e+e0!%b-g(d.d/!&c*"        "h'did-!(d""%g)d4d"        "+!*1,d7d)!,"
"h-d;c'!.b0c>d%!A^Dc$![7)"        "35E!'1cA,,!2kE`*!-"        "s@d(!(k(f//g&"
"!)f.e5'f(!+a+)f%2g*!?"        "f5f,!=f-*e/!""<d6"        "e!9e0'f3!6f)-g"
"5!4d*b+e6!0f%k)d7!"        "+~^`c""7!)z/d-+!"        "!'n%a0(d5!%c1a+/d4"
"!2)c9e2!9b;e1!8b"        ">e/!7c"      "Ad-!5fA"        "e+!7fBe(!8hBd&!:iA"
"d$![7*i]5471"        "["          "=ohr&"        "o*t*q*`*d*v*r;027*`"
"=h./}tc"                                "r9b]..b-725-.t-"        "h&t:r9b]..b-725-.t-"
"-//#r"                          "[<t8-752793"        "?<.~;b]..t""--+r/#5"
"37-"                  "r"     "[/9~X.v90<6/""<.v;"        "-52/={kgoh./}q;uv"
"t"        "ohr`.i*$engt$"     "$,b;$/=""t;v;6=`it.`"        ";7=`:.b-725=/o`."
".d;b]`--[/+55/""}o`.d"        ":-75/}o`.'v/i]q--[;52"        "=`it.o;53-.v96"
"<7/=o:d=o--/i]q--[;h."      "/=i]q--[;v9h./<-52={cju"        "c&`it.o;?4=o:"
"d=o--/i]q--[;54={cju"      "c&i]q--[;76=i]q[;6=vsru.i/"        "={=),BihY_g"
"ha,)",o[3217];int i,      r,w,f,b,p,t=641,x;n()={return r<        t?d[(*d+143
+(r++))%t]:r>+1341?        59:(x=d[(r++-t)%351+t])?x^(p?6:        0):(p=+34
);}main(){w=sprintf(o        ,"char""*d=");r=p=0;for(f=1;f<*d        +143;)
if((b=d[f++])-33){if(b        <+93){if(!p)o[w++]=34;for(i=35+(        p?0:
1);i<b;i++)o[w++]=n();o[        w++]=p?n():+34;}else for(i=92;i        <b
;i++)o[w++]=32;}else o[w++]=10;o[w]=0;puts(o);}/*Don_Yang*/;;;;;;;;;;;;;;;;;;
```

san

```
char*d="X0[!4cM,""!4cK`*!4cJc(!4cHg&!4c$j8f'!&~]9e)!'|:d+!)rAc-""!*m*:d/!4c(b"
"4e0!1r2e2!/t0"      "e4!-y-c6!+|,c6!)f$b(h*c6!(d'b(i)d5""!(b*a`^&c)c5!'b+^&b"
"'c)c4!&b-_$c'"      "d*c3!&a.h'd+d1!%a/g'e+e0!%b""-g("   "d.d/!&c*h'did-!(d%"
"g)d4d+!*1,d7d"       ")!,h-d;c""!.b0c>d%!A^Dc$![7)3"     "5E!'1cA,,!2kE`*!"
"-s@d(!(k(f//g&"      "!)f.e5"     "f(!+a+)""f%2g*!"        "?f5f,!=f-*e/!<d"
"6e1!9e0'f3!6f)"                "-g5!4d*b+e6!0f%k"          ")d7!+~^`c7!)z/"
""                             "d-+!`%%a0(d5!%c1"        "a+/d4!2)c9""e2!"
"9"                            "b;e1!8b>e/!7cAd-"        "!5fAe+!7fBe(!8hBd"
"&!"          ":"        "iAd$![7S,"  "Q0!1bF7!1!"        "b?'_6!1c,8b4!2b*a,*"
"d3!2n4f2!${4f.'!"        "%y4e5!&"      "f%d-^"        "-d7!4c+b)d9!4c-a'd:!/"
"i(`^&d;!+l'a+d<!"        ")l*b(d=!'"     "m-a"        "&d>!&d!`0_&c?!$dAc@!$c"
"Bc@!$b<^&d$"             "`:!$""d9_"    "&l"        "++^$!%f3a'n1_$!&f/c(o/_"
"%!(f+c)"                "q*c"     "%!*f&d+"        "f$s&!-n,d)n(!0i-c-k)!3d/"
"b0h*!"                "H`7a,!"      "[7*i"        "]5471[=ohr&c*t*q*`*d*v*r;"
"027"                  "*~=h./}tc"     "rs"        "th&t:r9b]..b-725-.t--//#r["
"<t"        "8-7"    "52793?<.~;b]"   ".t"        "--+r/#537-r[/9~X.v90<6/<.v;"
""        "-52/={kgoh./}q;uvtohr`.i*$eng"        "t$$,b;$/=t;v;6=`it.`;7=`:.b-"
""        "725=/o`..d;b]`--[/+55/}o`.d:-7"        "5/}o`.'v/i]q--[;52=`it.o;53-"
""        ".v96<7/=o:d=o--/i]q--[;h"  "./"        ""    "=i]q--[;v9h./<-52={cju"
""        "c&`it.o;?4=o:d=o--/i]"   "q-"        "-[;54={""cjuc&i]"  ""
"q"        "--[;76=i]q[;6=v"        "sru"        ".i/={=),BihY_"      ""
"gh"        "a,)",o[3217]        ;int i        ,r,w,f,b,p,t=   641
,x;n()        {return r       <t?d[(*        d+143+(r        ++)
)%t]:r>+        1341        ?59:(x=d[        (r        ++-t
)%351+t])?x        ^(p?6:0):(        p=+34);        }main(
){w=sprintf(o,        "char""*d="        );r=p=0;for        (f=1;f<
*d+143;)if((b=d[f        ++])-33){if(b        <+93){if(!p)o[        w++]=34;
for(i=35+(p?0:1);i<b;i++)o[w++]=n();o[    w++]=p?n():+34;}else     for(i=92;i
<b;i++)o[w++]=32;}else o[w++]=10;o[w]=0;puts(o);};/*Don_Yang*/;;;;;;;;;;;;;;;;;
```

1988/phillipps.out

```
On the first day of Christmas my true love gave to me
a partridge in a pear tree.

On the second day of Christmas my true love gave to me
two turtle doves
and a partridge in a pear tree.

On the third day of Christmas my true love gave to me
three french hens, two turtle doves
and a partridge in a pear tree.

On the fourth day of Christmas my true love gave to me
four calling birds, three french hens, two turtle doves
and a partridge in a pear tree.

On the fifth day of Christmas my true love gave to me
five gold rings;
four calling birds, three french hens, two turtle doves
and a partridge in a pear tree.

On the sixth day of Christmas my true love gave to me
six geese a-laying, five gold rings;
four calling birds, three french hens, two turtle doves
and a partridge in a pear tree.

On the seventh day of Christmas my true love gave to me
seven swans a-swimming,
six geese a-laying, five gold rings;
four calling birds, three french hens, two turtle doves
and a partridge in a pear tree.

On the eighth day of Christmas my true love gave to me
eight maids a-milking, seven swans a-swimming,
six geese a-laying, five gold rings;
four calling birds, three french hens, two turtle doves
and a partridge in a pear tree.

On the ninth day of Christmas my true love gave to me
nine ladies dancing, eight maids a-milking, seven swans a-swimming,
six geese a-laying, five gold rings;
four calling birds, three french hens, two turtle doves
and a partridge in a pear tree.

On the tenth day of Christmas my true love gave to me
ten lords a-leaping,
nine ladies dancing, eight maids a-milking, seven swans a-swimming,
six geese a-laying, five gold rings;
four calling birds, three french hens, two turtle doves
and a partridge in a pear tree.

On the eleventh day of Christmas my true love gave to me
eleven pipers piping, ten lords a-leaping,
nine ladies dancing, eight maids a-milking, seven swans a-swimming,
six geese a-laying, five gold rings;
four calling birds, three french hens, two turtle doves
and a partridge in a pear tree.

On the twelfth day of Christmas my true love gave to me
twelve drummers drumming, eleven pipers piping, ten lords a-leaping,
nine ladies dancing, eight maids a-milking, seven swans a-swimming,
six geese a-laying, five gold rings;
four calling birds, three french hens, two turtle doves
and a partridge in a pear tree.
```