

block 1331 shadow

example comments **br**

```
gcd ab-c invariants- a.gt.0, b.ge.0, c.gt.0 cr
note that the smaller of the two arguments is
always put in s while their difference is put
in t, favoring the b.ge.a case. this speeds up
the loop while one arg is much larger than the
other. ans- cr
begin dup while indent
.... over - dup 0lt if indent
.... dup negate tor + rfrom then cr
repeat drop ; br
```

```
bcnt w-n n is the number of 1-bits in w.
bcnt+ wn-n' entry for counting multiple words.
'zif' is decrementing w once for each 1-bit so
will exit when all are tallied. 'next' is decr
ementing the inverted count and must never rea
ch zero. it has two slot2 jumps so place caref
ully. ans- cr
0 begin over while indent
.... 1+ tor dup 1 - and rfrom cr
repeat nip ;
```

block 1330

examples **br**

```
0 org begin a,b-a
gcd ab-c while indent
.... a,b - over . + - -until indent
.... a,b-a -1 over . + - indent
.... a,b-a,a-b push . + pop b,a-b gcd ; cr
then a,0 drop ; 008 br
```

br

br

```
bcnt w-n dup dup or
bcnt+ wn-n' - push cr
begin dup push zif drop pop - ; then cr
pop and next 00D br
```