.MODEL SMALL

.DATA

NUM1 DB 08H

NUM2 DB 04H

GCD DB ?

.CODE

MOV AX,@DATA

MOV DS,AX

MOV AL,NUM1

MOV BL,NUM2

MOV AH,0

UP:

CMP AL,BL

JE EXIT

JB EXCG

UP1:

MOV AH,0H

DIV BL

CMP AH,0

JE EXIT

MOV AL,AH

JMP UP

EXCG:

XCHG AL,BL

JMP UP1

EXIT:

MOV GCD,BL

MOV AH,4CH

INT 21H

END