\*\*Arthur Flores

\*\*masc 0200

\*

ORG $8000

GCD: EQU $7000

reduce: link A6,#0 \*set return address and A6

movem.l A0/A1,-(SP) \*move A1/A2 onto stack

movea.l 8(A6),A0 \*num

movea.l 12(A6),A1 \*den

move.w (A0),-(SP) \*push contents of A0 on stack

move.w (A1),-(SP) \*push contents of A1 on stack

jsr GCD \*go to GCD

adda.l #4,SP \*dump garbage from stack

\*\*\*\*\*\*\*\*\*\*\*\*\*\*

move.w (A0),D1 \*move contents of A0 into D1

ext.l D1 \*extend D1

divu.w D0,D1 \*divide D1 by GCD

move.w D1,(A0) \*move D1 into A0

move.w (A1),D2 \*move contents of A1 into D2

ext.l D2 \*extend D2

divu.w D0,D2 \*divide D2 by GCD

move.w D2,(A1) \*move contents of D2 into A1

\*\*\*\*\*\*\*\*\*\*\*\*\*\*

movem.l (SP)+,A0/A1 \*Move A0/A1 onto stack

unlk A6 \*unlink

rts \*return to subroutine

end