#include <stdio.h>

#include <stdlib.h>

int sumdiv(int);

int amigos(int,int);

int main()

{

int num1, num2;

printf("Digite dos n%cmeros: ",163);

scanf("%d %d",&num1, &num2);

if ( amigos(num1,num2))

printf("%d y %d son amigos\n", num1,num2);

else

printf("%d y %d no son amigos\n",num1,num2);

return 0;

}

int sumdiv(int num)

{

int fact, maxfact = num/2, sumfact = 0;

for ( fact = 1; fact <= maxfact; fact ++)

if ( num % fact == 0)

sumfact+=fact;

return sumfact;

}

int amigos(int a,int b)

{

return sumdiv(a) == b && sumdiv(b) == a;

}