# Problem



# Solution

from fractions import Fraction

from functools import reduce

def product(fracs):

    t = reduce(lambda x, y : x \* y, fracs)

    return t.numerator, t.denominator

if \_\_name\_\_ == '\_\_main\_\_':

    fracs = []

    for \_ in range(int(input())):

        fracs.append(Fraction(\*map(int, input().split())))

    result = product(fracs)

    print(\*result)