def is\_prime(n):

if n < 2:

return False

for i in range(2, int(n \*\* 0.5) + 1):

if n % i == 0:

return False

return True

nums = list(map(int, input().split()))

primes = [n for n in nums if is\_prime(n)]

composites = [n for n in nums if not is\_prime(n) and n > 1]

print(primes, composites)