```
def largest_prime_factor(n: int):
 """Return the largest prime factor of n.
    Assume n > 1 and is not a prime.
 >>> largest prime factor(13195)
 29
 >>> largest_prime_factor(2048)
 0.00
# reference solution
def is prime(k):
    if k < 2:
       return False
    for i in range(2, k - 1):
        if k \% i == 0:
           return False
    return True
largest = 1
for j in range(2, n + 1):
    if n % j == 0 and is_prime(j):
        largest = max(largest, j)
 return largest
 # generated by CodeGen
 def largest_prime_factor(n: int):
    if n < 2:
       return 1
    if n % 2 == 0:
       return 2
                        Repeated within
    if n % 3 == 0:
                         the generation
       return 3
    if n % 5 == 0:
        return 5
```