2.12 LeetCode Problem 204: Count Primes

204. Count Primes

https://leetcode.com/problems/count-primes/

Given an integer n, return the number of prime numbers that are strictly less than n.

Figure 2.20: Problem definition

2.12.1 Leetcode output

204. Count Primes

https://leetcode.com/problems/count-primes/

```
class Solution:
def countPrimes(self, n: int) -> int:
    list = []
    work = [0]
    if True:
        L0204(n, list, work, "up_to_prime")
    if False:
        L0204(n, list, work, "sieve_of_eratosthenes")
    return len(list)
```

```
Time Limit Exceeded   Details >
```

```
Success Details >
```

Runtime: $8928\ ms$, faster than 5.02% of Python3 online submissions for Count Primes.

Memory Usage: 70.2 MB, less than 35.97% of Python3 online submissions for Count Primes.

Figure 2.21: Problem 204: Count Primes passed

2.13 LeetCode Problems 225, 235, 632 and 641 using slist