

1. Linear Search:

```
import random
import time
import matplotlib.pyplot as plt

def linear_search(arr, x):
    for i in range(len(arr)):
        if arr[i] == x:
            return i
    return -1

ns = [10, 100, 1000, 10000, 100000] # List of values of n to experiment with
times = [] # List to store the time taken for each value of n

for n in ns:
    # Generate a list of n random numbers
    arr = [random.randint(1, 100) for _ in range(n)]

    # Search for an element and measure the time taken
    x = random.choice(arr) # Choose a random element to search for
    start_time = time.time()
    index = linear_search(arr, x)
    end_time = time.time()
    times.append(end_time - start_time)

    if index == -1:
        print(f"Element {x} not found in list of {n} elements.")
    else:
```

Search For Explanation Volume 3

Anthony S. Fauci



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