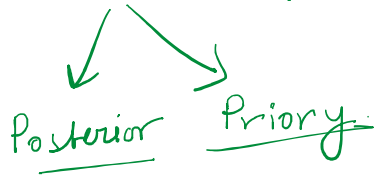


Analysis is process of comparing two algos wrt space & time.



In priority, analysis is done before execution.

In posterior, ~~are~~ " " " after " " depends on hardware.

```
main() {  
    int a=5, b=10;  
    int sum = a+b;  
    print(sum);  
}
```

execution time = 0.4 second.
Pentium → i3
 → 0.1 second
 → 0.09 second.

```
main() {  
    int a=5, b=10, → 1  
    int sum = a+b; → 1  
    print(sum); → 1  
}
```

TC $O(3)$

for($i=0; i<n; i++$)
 print(arr[i]); → $O(N)$;

Priority — Estimated time of execution.

Posterior — Exact time of execution.