## TIME COMPLEXITY

 $-0(1) \Rightarrow constant function$ 

- O(logn) => logarithmu funct

- O(n) ⇒ (inear 11-11

- O(nlogn)

- 0 (n2) -> Quadratic

- 0(n2(ogn)

- 0(n3) => Cubic

-  $O(2^n) \Rightarrow Exponential$ 

- 0 (N!)

takes higher time

-Lakes least time

- Space Complemy - algorthm occupies that much

menory

TC V/s SC Select TC — Select SC

Which is less — even ext that
when programs takes a bit of
need to work faster & memory

2 choose Tc even of it Space/menory is
Limited has I time executing