

## Complexity

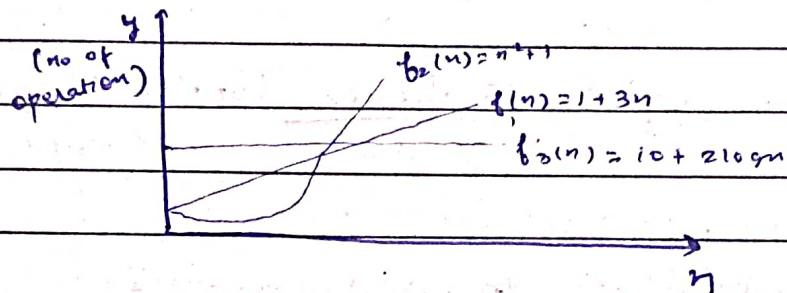
Factors on which algo is considered better?

→ time → machine on which it works → no of operations

To find no of operations:

maths, variable, printing = 1 operations

if else, comparison = constant



Big O : for large input & worst case of no of operation at order

order : for asymptotic analysis for large input & jaha converge  $\infty$  &  $\infty$

$$f(n) \leq c \cdot g(n) \quad \forall n > n_0$$

$$\therefore O(g(n))$$