Space complexity - It is defined as the amount of space and memory veguined by an algorithm to solve the problem. S(P) = C + SP(instance) s(p) = space complexity

c = fixed part Sp(Instance) -> variable part Example (1) Algorithm abc (9, b, c) return at b+b*c + (a+b+c)/(a+b)+4.0 for ruley Anstance 3 woulds are suguered to store variable: a,b&c Space complexity = 3 Algorithm Sum (all, n) tor (i= 1 tom)

s = sta[i], space Complexity = n+3 return 5. to stare all - numereds n = 1 wands To Stave 185 - 2 wands

There are there notation 0 - Notation cupper Roll O-Notation (upper bound)

f(n) = o(g(n)) En this f(n) lies on or below (gent)

c g(n) where c is positive constant Big O gives us jornal may of Expressing 1 - Notation (Louis Bound)

f(n) = sl (g(n)) du this f(n) lies on or above cgin)
where c is pasitive constant Omega gives us a formal may of expressing tower bound. O-Notation (Same audeu) f(n) = 9(g(n)) and (2 g(n) where G and (2 are passive constant. The tueta notation is mare pueuse man both the big o(n) and owega notation