-dominant order: part of the complexity that cause the greatest effect. dry the constant. (these have a fixed value) ID all variables & variable size. (2) ID the operations. - which are related to the variable see. Tooks. I how many times a loss will know in the loss - multiply whatever is nested inside the loop - Add consecutive loop, multiply nested loops. Lists. - list append(x) (1) constant time complexity
- list (1) = x (1) constant time complexity
- x in list (1) (new) -> space = lenclost) x size of item in list. | Orcts: / dret(key) = value O(1)] time

Key in diet O1] time Space = (# of Keys value) * Size of Hetay) + ((# of value) * size of) Str = "something" Str = Str2 OL# of chas) OL# of chas in \$12) (time

- Space Ol#of char)