-X Recursion -It is used when the possiblem can be broken down into smaller, supetitive tasks. - Advantages: · complex tasks broken into simplest proble · code using it is very shorter: - sequence generation is cleaner with stewnsion than with iteration & Big O notation: time compelexity: - lear time & constant, time quadratic times step 1:- fastest growing term step 2:- take out the coefficient. T = an + b = o(an) $T = (an^2 + dn) + e = o(n^2)$ T = C = O(1). 40 xgiven avigy = [1, 4, 3, 2, -10]. det _f stupid_function (given_corray):
total = 0 -> O(1)

return total -> O(1)

Telum total -> O(1)

DATE: // PAGE NO: $\frac{1}{1} \det \int_{\mathbb{R}^{2}} fina_{sum} \left(given_{avay} \right) :$ $\frac{1}{1} \det \int_{\mathbb{R}^$

because of for loop sun on time (auray_ 2d): each Jow in array 2d: cachi in now: > 0 (10) x m2 1 Jeturn because of 2 foir loop