

8 ky the algorithm in order to execute. Question (g(n) no cn g(n) (cg(n) f(n) C7/0 Therefore, this is the worst-case scenario (ii) Big - omega. (s) - Lower bound This shows the best care time-complexity. This shows the lower bound. The time taken will be equal to or greater than this 'cg(n) $n \circ \langle n \rangle f(n) > (g(n))$ (70 Therefore, this is the best - case scenario (iii) Big-Theta (0) - Upper and lower boung. This shows the tight bound time complexity, that is the overage case. It montions an upper and a lower bound. (29(n) no < n, (7,0 $C_1g(n) \leqslant f(n) \leqslant C_2g(n)$ C19(n) Therefor, this gives the average time complenity. The time complexity of the function f(n) will always be between c,g(n) and c,g(n). Therefore, it is given a range for the time comprenity. These notations help us analyse the efficiency of algorithms