



Ordine de maine
g: N → R+
O(g)={f: N→R+ 3c>0, 3mo ∈ N, + m≥mo · f(m) ≤ c·g(m)}
Ω(g)={f:N→R+ 13c>0, 3moeth, + m≥mo: f(m)≥c·g(m)}
D(g) = { f : N > R+ 3c, cc > 0, 7 mo∈W, + m ≥ mo: cig(m) = f(m) ≤ cz. g(m)}
o(g)= {f:N >R+ te>o, 3mo & N, + m>mo: f(m) < c.g(n)}
Ex 5 Jem. ca
Daca f(n) = O(h, (n)) rd g(n) = O(h2(n)) atumi (f(m) + g(n) = O h (maxe {h, (w), h2(n)})
ϵ
$\exists c > 0$, $\exists m \in \mathbb{N}$, $\forall m \ge m$: $\exists (m) + g(n) \le c \cdot \max_{c = 7} \{h_1(m), h_2(n)\}$
f(m) = O(h,(m) => 3c,>0, 7m; EN, +n>m; f(m) &c, h,(m)
g(m) = O(h2(m)) => 3c2>0, 3m="EM, x m ≥m": g(m) & c2. h2(m)
f(m)+g(m) ≤ C1. h1(m) + c2. h2(m) ≤ C1. max {h1(m), h2(m)} + c2. {h4(m), h2(m)}
≤(C,+Cz)·max { h, (m), h, c(m)}
Common de la commo

