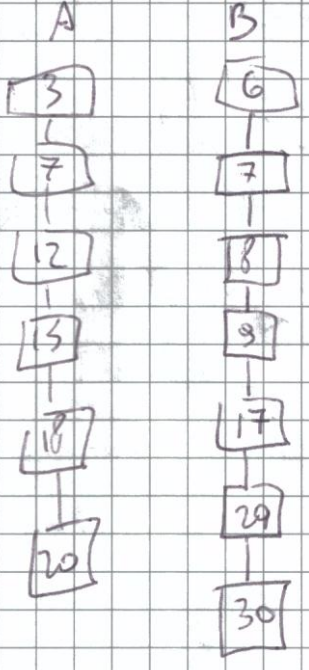
$A[1..n]$ $\quad k \leq m$

k

-1, 2, -3, 5, 6,



L ← LISTA
while (A≠NIL && B≠NIL)

if (A<B)
APPENDI A ad L
AVANZA A
else
APPENDI B ad L
AVANZA B

if A≠NIL
APPENDI RESTO A a L
else
APPENDI RESTO B a L

$\max\{f(n), g(n)\} = \Theta(f(n) + g(n))$

Supponiamo che $f(n) = O(g(n))$ allora

$\exists c>0, \exists n_0 : f(n) \leq c\,n \quad \forall n \geq n_0$

e quindi:

$g(n) = \Theta(g(n) + f(n))$ perché

$\exists c>0; \exists n_0 : \quad g(n) \leq f(n) \leq c\,n \leq g(n) + f(n)$