Homework # 1 Ryan English 2.1 -1 Ving Figur 22 as a model, illshake the operation Or whichin soit on the array A= 531, 41,59, 26, 41,583 31 41 59 26 41 55 31 41 59 26 41 58 41 41/59/58/ 141/41/58/59

24.2 21-2 Prewite the mycho- soll pocedur to be nonleavery For j=2 to Alenyth May = ALjJ

i= j-1

while i>0 and ALiJ = Key ACi +17- ACi) 1=1-1 ALi+1] = 147 7.1-3 Conside the second poblem Mist: A sey at n numbers A- Ea, az, ..., an} and a Value of v Oupst: An index; such that V= A[:] or the Special value NIL it V dues not appear For j=0 to A. length Loop invision t test = ALjT Subset \$ [0-j-1] does not include value if test== value return # ; there feminates when value return NIL is bound at j = A. leng H.-1

Maintanence

Compare Aci] to value

-

-

-

2.2-1

Expiss the Naction n3/1000-100n2-100n+3

The Lems of O-notation

input size: # of item h ph upput or # of bib

Nuncy face = shept exceld

Come each step

Take of growth & O

M3/1000-100n2-100n+3

Chilar where when