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LABWORK 1

Exer1:

Exer2:

* Pseudo-code:

BEGIN

Get n

Set Max to a[0]

i←2

If (i>n) then

Print Max

If (a[i]>Max) then

Print Max←a[i]

i←i+1

Print Max

END

* The complexity : O(n)

Exer3:

* Pseudo-code:

BEGIN

Get n

sum←1

For(i←2;i\*i<=n;i←i+1) do

If (n mod i == 0) then

If (i\*i != 0) then

sum←sum+i+(n mod i)

else

sum←sum+i

If (sum ==n AND n!= i) then

Print True

Else

Print False

* The complexity: O(n^1/2)