

main

Ⓐ Written by Betsy Kamas
Ⓐ Written in APLX for Windows
Ⓐ Written for CS431 GHP5
Ⓐ November 2022

Ⓐ Task 1&2

'100 Random Integers:'

x←100?1000

x

Ⓐ Task 3

'Sorting using selection sort:'

sortitHARD x

Ⓐ Task 4

'Sorting using built-in quicksort:'

sortitEASY x

sortitHARD x

Ⓐ Written by Betsy Kamas
Ⓐ Written in APLX for Windows
Ⓐ Written for CS431 GHP5
Ⓐ November 2022

w←1 Ⓐ Setting index location

z←x Ⓐ Making copy of array that can be altered

:While w≤100

y←⌊/x Ⓐ Finding smallest element

z[w]←y Ⓐ Assigning smallest element to correct position

x[(x≠y)]←1001 Ⓐ Assigning out of range variable so sort can continue

w←w+1 Ⓐ Find next smallest num

:EndWhile

z Ⓐ print sorted nums

sortitEASY x

Ⓐ Written by Betsy Kamas
Ⓐ Written in APLX for Windows
Ⓐ Written for CS431 GHP5
Ⓐ November 2022

x[⌈x]