Name: Umurzokov Bakhtishod

Neptun code: Y62UF3

B1 Assignment. Task 5: Oldest employee.

Specification.

Input: $dataLength \in \mathbb{N}$
$age[1 \dots dataLength] \in \mathbb{N}$
$salary[1 \dots dataLength] \in \mathbb{N}$

Output: $salaryForMaxVal \in \mathbb{N}$

Precondition: $1 \leq dataLength \leq 100$
$\forall i (1 \leq i \leq dataLength) : (1 \leq age[i] \leq 100)$
$\forall i (1 \leq i \leq dataLength) : (1 \leq salary[i] \leq 2\,000\,000)$

Postcondition: $maxIndex = \underset{i=1}{\overset{dataLength}{MAXIND}}(age[i])$
and $salaryForMaxVal = salary[maxIndex]$

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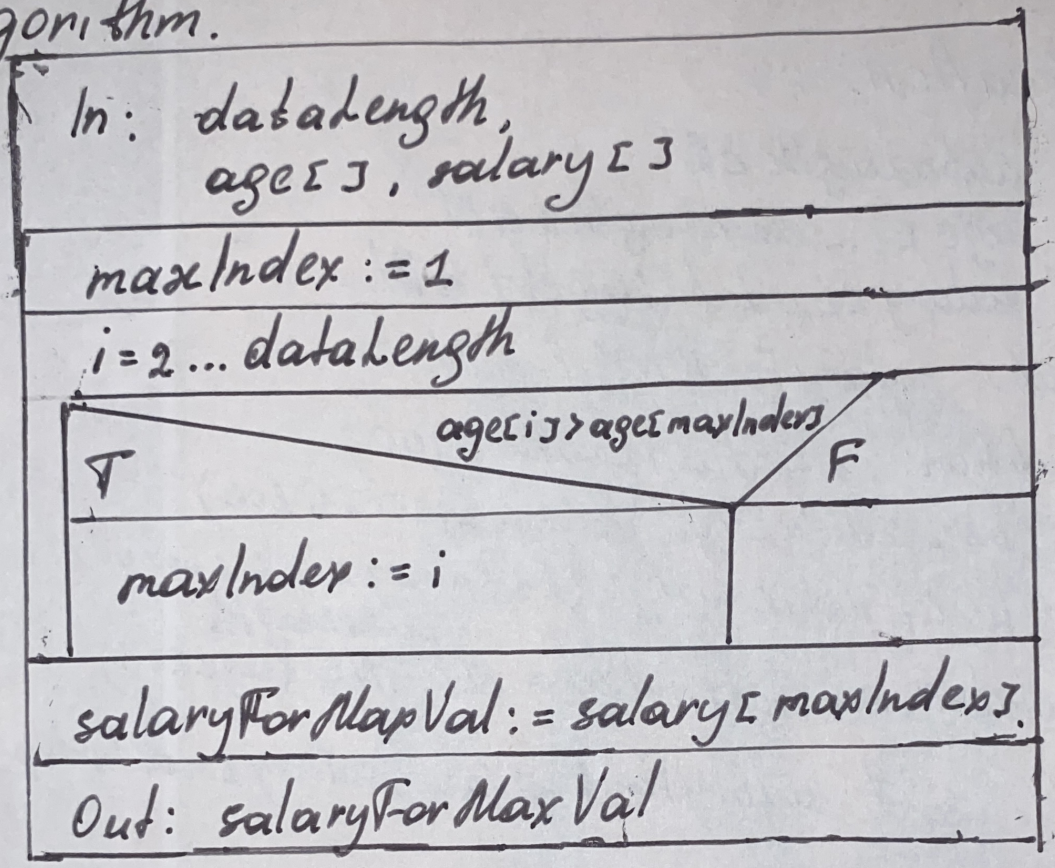
Algorithm.



Pattern

length(x) → dataLength
maxInd → maxIndex
x[ ] → age[ ]