Name: Umurzokov Bakhtishod

Neptun Code: Y62UF3

B2 Assignment. Shopping for the first brand of tea.

Specification:

Input: $dataLength \in \mathbb{N}$
$brandName[1...dataLength] \in \mathbb{T}$
$brandAmount[1...dataLength] \in \mathbb{N}$

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

Precondition: $1 \leq dataLength \leq 100$

$\forall i (1 \leq i \leq dataLength) : (1 \leq length(brandName[i]) \leq 20)$

$\forall i (1 \leq i \leq dataLength) : (1 \leq brandAmount[i] \leq 2000)$

Postcondition: $totalAmount = \sum\limits_{i=1}^{dataLength} brandAmount[i]$

$\underline{firstBrand = brandName[i]}$
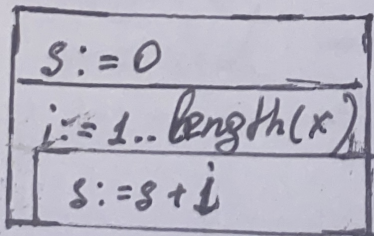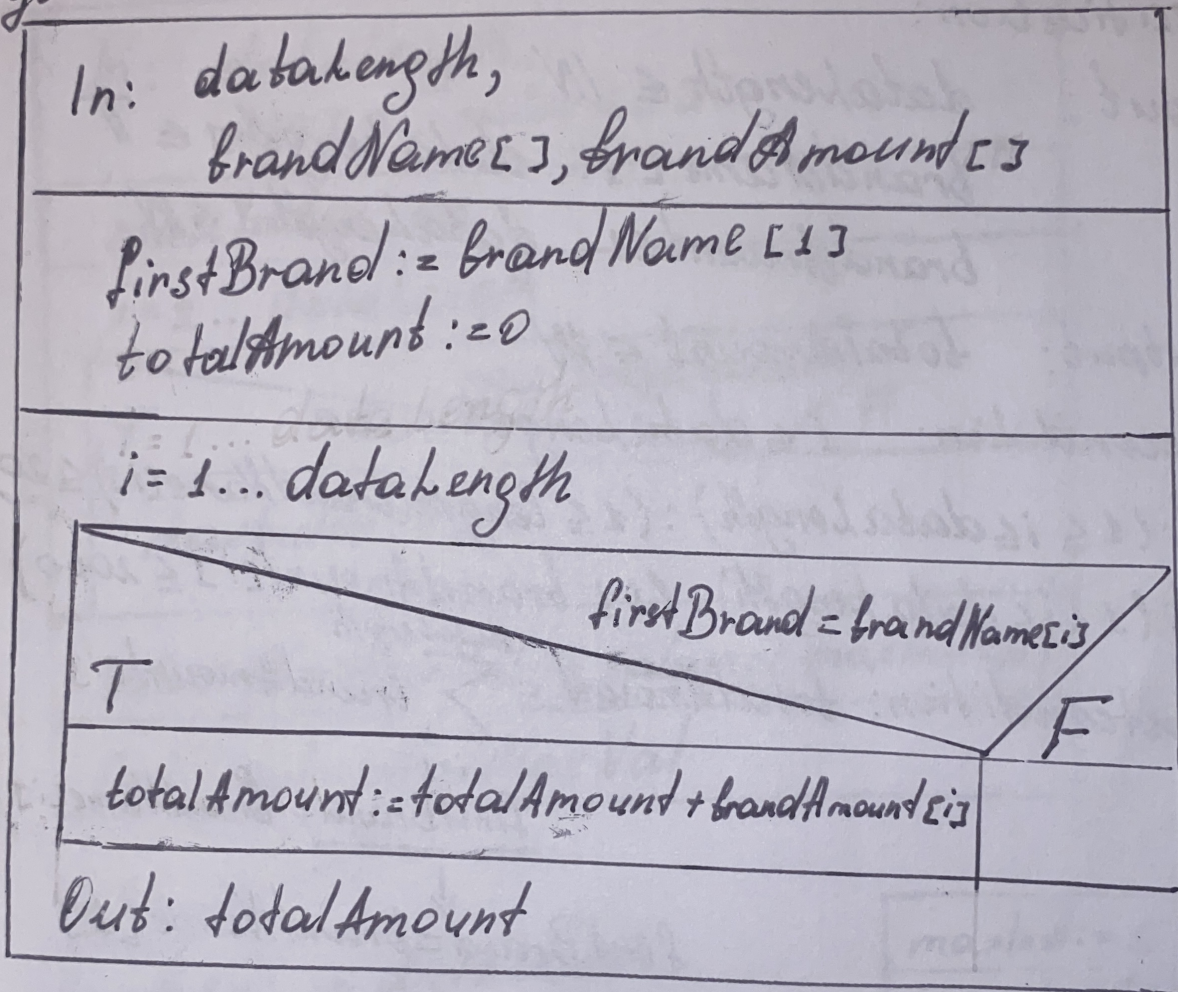
$firstBrand = brandName[1]$

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Algorithm.

In: dataLength,   brandName[ ], brandAmount[ ]
firstBrand := brandName[1] totalAmount := 0
i = 1... dataLength

T	firstBrand = brandName[i]	F
totalAmount := totalAmount + brandAmount[i]		

Out: totalAmount

s := 0
i := 1.. length(x)
s := s + i

length(x) => dataLength
--> s => totalAmount