Given: $a_1, ..., a_n$

Compute:

$$\sum_{i=1}^{n} a_i \frac{1}{n} = \frac{a_1 + a_2 + ... + a_n}{n}$$

Algorithm: Average(*S, n*) computes the average of n values of S.

Input : $S[\,]$: array of data, n: the number of values
Output : *A*verage of all values
$x \leftarrow 0$
for $i \leftarrow 1, 2, ..., n$ **do**
    $x \leftarrow x + S[i]$;
end for
output x/n;