uva Inline Judge

## 10746 Crime Wave - The Sequel

$n$ banks have been robbed this fine day. $m$ (greater than or equal to $n$ ) police cruisers are on duty at various locations in the city. $n$ of the cruisers should be dispatched, one to each of the banks, so as to minimize the average time of arrival at the $n$ banks.

## Input

The input file contains several sets of inputs. The description of each set is given below:
The first line of input contains $0<n \leq m \leq 20$. $n$ lines follow, each containing $m$ positive real numbers: the travel time for cruiser $m$ to reach bank $n$.

Input is terminated by a case where $m=n=0$. This case should not be processed.

## Output

For each set of input output a single number: the minimum average travel time, accurate to $\mathbf{2}$ fractional digits.

## Sample Input

34
10.023 .030 .040 .0
5.020 .010 .060 .0
18.020 .020 .030 .0

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## Sample Output

13.33

