Above Average

Extracted from: UVA 10370
Source file name: `average.py`
Time limit: 3 seconds

It is said that 90% of frosh expect to be above average in their class. You are to provide a reality check.

Input

The first line of standard input contains an integer C, the number of test cases. C data sets follow. Each data set begins with an integer, N, the number of people in the class ($1 \leq N \leq 1000$). N integers follow, separated by spaces or newlines, each giving the final grade (an integer between 0 and 100) of a student in the class.

The input must be read from standard input.

Output

For each case you are to output a line giving the percentage of students whose grade is above average, rounded to 3 decimal places.

The output must be written to standard output.

Sample Input	Sample Output
5	40.000%
5 50 50 70 80 100	57.143%
7 100 95 90 80 70 60 50	33.333%
3 70 90 80	66.667%
3 70 90 81	55.556%
9 100 99 98 97 96 95 94 93 91	