# A test of "programming for beginners" – 7 may 2017

## Task 4 . Football tournament

Your SoftUni team organized a football tournament. Initially read from the **console, the stadium's capacity and the number of all fans**. Then **for any fan read the sector in which it is located**. Fans of **the first team** are in **sector a and b**, and the **second – (c) and (d)**. To write a program that **calculates the percentage of fans in each sector, relative to the total number of fans in the stadium, as well as the total percentage of fans for both teams, in relation to the capacity of the stadium. The total number of fans does not exceed the capacity of the the stadium.**

### Login

From the console to read **a series of numbers**, each **on a separate line**:

1. **The capacity of the stadium**– **an integer in the range** **[1 ... 10000]**;

2. **The number of all fans**– **an integer in the range** **[1 ... 10000]**.

**For each fan**, **on a separate line** shall read:

1. **The sector, which is**– **text**- **" A "," B "," V "and" G "**.

### Exit

To be printed on the console **5 line**, each of which contains **a percentage between 0.00% 100.00%**, **formatted to the second digit after the decimal point**:

1. **The percentage of fans in the sector and**;

2. **The percentage of fans in sector b**;

3. **The percentage of fans in the sector in**;

4. **The percentage of the fans in section (d)**;

5. **The percentage of all fans to the stadium's capacity**.

### Sample input and output

|  |  |  |  |
| --- | --- | --- | --- |
| **Login** | **Exit** | **Explanations** | |
| 76  10  A  V  V  V  G  B  A  V  B  B | 20.00%  30.00%  40.00%  10.00%  13.16% | Fans in the sector and are **2**. We calculate what percentage are from **total-10 fans**in the stadium.  2 / 10 \* 100 = **20.00%**  Fans in the sector B are **3**. Similarly, we calculate **their percentage** against the total number of fans.   3 / 10 \* 100 = **30.00%**  Fans in the sector V are **4**. Similarly, we calculate **their percentage** against the total number of fans.  4 / 10 \* 100 = **40.00%**  In the sector G there is only **1** fan. Similarly, calculate **what percentage is relative to the total number of fans.**   1/10 \* 100 = **10.00%**  Calculate the percentage of all fans, compared to the capacity of the stadium:  10/ 76 \* 100 = **13.16%** | |
| **Login** | **Exit** | **Login** | **Exit** |
| 93  16  A  V  G  G  B  B  G  B  A  B  B  B  A  B  B  A | 25.00%  50.00%  6.25%  18.75%  17.20% | 1000  12  A  A  V  V  A  G  A  A  V  G  V  A | 50.00%  0.00%  33.33%  16.67%  1.20% |