# A test of "programming for beginners" – 26 March 2016

## Task 4 . Division without remainder

Given are **n integers**in the range [**1**... **1000** ]. Some of them **rate p1 divide without a remainder of 2**, another **rate** **p2**is **divide the number 3**, another **percentage** **p3**is **divided without remainder of 4**. To write a program that calculates and prints the percentages **p1**, **p2**and **p3**.

**Example**: we have n = 1**0**numbers: 680, 2, 600, 200, 800, 799, 199, 46, 128, 65. We get the following distribution and visualization:

|  |  |  |  |
| --- | --- | --- | --- |
| **Partition number:** | **Numbers in the range** | **Number of numbers** | **Percentage** |
| 2 | 680, 2, 200, 600, 800, 46, 128 | 7 | p1 = 7.0 / 10 \* 100 = **7 0.00**% |
| 3 | 600 | 1 | p2 = 1 / 10 \* 100 = **10.00**% |
| 4 | 680, 200, 600, 800, 128 | 5 | p3 = 5 / 10 \* 100 = **50.00**% |

### Login

The first line of the entrance stands the integer **n**(1 ≤ **n**≤ 1000) – number of numbers . The next **n the order**stands **as a** **whole number** in the range [**1**... **1000** ] -the numbers to be checked how much the divide.

### Exit

To be printed on the console **3 line**, each of which contains a percentage between 0% and 100%, with an accuracy of two digits after the decimal point, e.g. 25.00%, 66.67% 57.14%.

        The **first line** – the percentage of numbers which **are divided into 2**

        The **second line** – the percentage of numbers which **are divided into** **3**

        The **third line** – the percentage of numbers that **are divided into 4**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Login** | **Exit** |  | **Login** | **Exit** |
| **10**  680  2  600  200  800  799  199  46  128  65 | 70 .00%  10 .00%  50 .00% | **3**  3  6  9 | 33 . 33%  100 .00%  0 .00% |