You have grades in Mathematics - - which can be only the natural numbersand you want a GPA of at least 5.50. Find the minimum number of additional grades that you need. Answer such tests.

**Input**

The first line of the file **grades.in** contains the number. Then, for each test, the next line contains the number , followed by a line of natural numbers .

**Output**

On lines in the **grades.out** file, print the minimum number of additional grades for each test.

**Constraints**

**Time limit: 0.2 sec.**

**Memory limit: 256 MB.**

**Sample test**

|  |  |
| --- | --- |
| **Input (grades.in)** | **Output (grades.out)** |
| 3  1  2  2  4 6  1  6 | 7  2  0 |