You have $n$ grades in Mathematics - $x\_{1}, x\_{2}, … , x\_{n}$ - which can be only the natural numbers$ 2, 3, 4, 5, 6 $and you want a GPA of at least 5.50. Find the minimum number of additional grades that you need. Answer $t$ such tests.

**Input**

The first line of the file **grades.in** contains the number$ t$. Then, for each test, the next line contains the number $n$, followed by a line of $n$ natural numbers $x\_{1}, x\_{2}, … , x\_{n}$.

**Output**

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

**Constraints**

$$1\leq n, t\leq 200$$

$$2\leq x\_{i}\leq 6$$

**Time limit: 0.2 sec.**

 **Memory limit: 256 MB.**

**Sample test**

|  |  |
| --- | --- |
| **Input (grades.in)** | **Output (grades.out)** |
| 31224 616 | 720 |