Let $n$ be a natural number. You have infinitely many figures of 4 types:



Formally, they are obtained by removing one square from a 2 by 2 square. Consider a$ n$ by $n$ square. You want to place the maximum number of figures in this square so that none of them comes out of the square and no two overlap. Find that amount. Answer $t$ such tests.

**Input**

The first line of the file **figures.in** contains the number$ t$. Each of the next $t$ lines contains one number - $n$ for the corresponding test.

**Output**

Print the answer of each test on a new line in the file **figures.out**.

**Constraints**

$$1\leq t\leq 10$$

$$1\leq n\leq 200$$

 **Time limit: 0.2 sec.**

 **Memory limit: 256 MB.**

**Sample test**

|  |  |
| --- | --- |
| **Input (figures.in)** | **Output (figures.out)** |
| 214 | 05 |