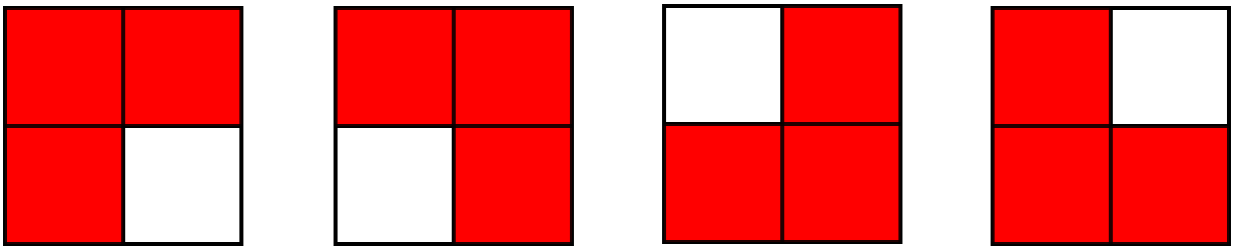
# Figures

2022/2023 SEASON – SECOND ROUND

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) |
|---|---|
| 2<br>1<br>4 | 0<br>5 |