



The first line of the input contains a single integer  $T$ , indicating the number of test cases. ( $1 \leq T \leq 50$ ) Each test case contains a single integer  $N$  ( $1 \leq N \leq 50$ ), indicating the number of pegs available.

### Output

For each test case in the input print a line containing an integer indicating the maximal number of balls that can be placed. Print  $-1$  if an infinite number of balls can be placed.

### Sample Input

```
2
4
25
```

### Sample Output

```
11
337
```