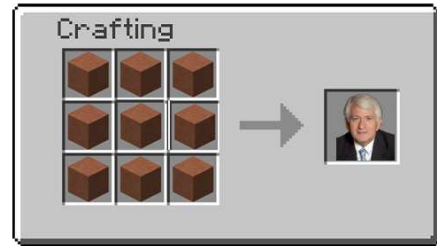


# Gene Block

## Problem ID: geneblock

You discovered that you could easily trade a big dirt block of size  $N$  for one of the rarest Minecraft blocks, Gene. Although excessively abundant, dirt blocks in this server come in different sizes — and, after careful observation, you realized that the size of each individual dirt block is always a positive integer that ends with 7, i.e. 7, 17, 27, etc. What is the minimum number of dirt blocks you need to trade for the Gene block?



Block Trade

### Input

The first line contains an integer  $1 \leq t \leq 405$ , giving the number of test cases to follow. Each case consists of one line containing a single integer  $0 < N \leq 10^9$ , the size of the dirt block you need to make in order to trade for the Gene block.

### Output

For each test case, output one line containing a single number, the minimum number of dirt blocks you need to trade for the Gene block, or  $-1$  if it cannot be done.

#### Sample Input 1

```
3
84
85
106054
```

#### Sample Output 1

```
2
5
2
```