13216 Problem with a ridiculously long name but with a ridiculously short description

All of us hate loooooong descriptions, so here goes one short: Calculate (66^n) mod 100 for the given n.

Input

First line of input contains T, the number of test cases ($1 \leq T \leq 5000$). Then, there are T lines, one for each case, containing n ($1 \leq n \leq 10^{1000}$).

Output

Print one line per case, the solution of (66^n) mod 100.

Sample Input

```
4
0
1
2
9999999999999999999999
```

Sample Output

```
1
66
56
36
```