All of us hate loooooong descriptions, so here goes one short: Calculate $\left(66^{n}\right) \bmod 100$ 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 $n\left(1 \leq n \leq 10^{1000}\right)$.

## Output

Print one line per case, the solution of $\left(66^{n}\right) \bmod 100$.
Sample Input
4
0
1
2
9999999999999999999999

## Sample Output

1
66
56
36

