All of us hate looooong 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  $(1 \le T \le 5000)$ . Then, there are T lines, one for each case, containing  $n \ (1 \le n \le 10^{1000})$ .

## Output

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

## Sample Input

4 0 1 2 99999999999999999999999999999

## Sample Output

1

66

56

36