J. Amusing numbers

Time limit: 0.357s   Memory limit: 1536 MB

Amusing numbers are numbers consisting only of digits 5 and 6.Given an integer k , display the kth amusing number.

Input

FIrst line consists of integer N representing number of test cases

Next N lines consist of N integers (1<=k<=10^15)

Output

N lines each displaying corresponding kth amusing number

Example

```
Input:
2
1
5
Output:
5
65
```

AOL code contest