

TARANIAMITKAUSHIK

Tarani likes numbers which contain only the digit 1 while Amit likes numbers which contain only the digit 5.

Kaushik likes numbers which are sum of two numbers, one containing only digit 1 and the other containing only digit 5.

Input

First line contains an integer $T (< 10)$ denoting the total number of test cases. Each test case contains an integer $N (1 \leq N \leq 100)$.

Output

Print "KAUSHIK" if kaushik likes the number. If kaushik doesn't like the number, print "AMIT" if amit likes it or "TARANI" if tarani likes it. Else print "NONE".

Sample input

```
3
116
11
3
```

Sample Output

```
KAUSHIK
TARANI
NONE
```

Explanation

116 is sum of 111 + 5 So kaushik likes it. 11 contains only digit 1 so tarani likes it. 3 doesn't satisfy the liking condition of anyone.