

Seperate the number

Given a Number(Maximum 4 digits after the decimal place), Shailvi needs to seperate the integer part and the decimal part. Can you help her? :D

Input

The input begins with the number t of test cases in a single line ($t \leq 1000$). In each of the next t lines there is 1 number(comprising of maximum 4 digits after the decimal place).

Output

For every test case print two numbers per line, the integer part and the fraction part(separated with space in between)

Example

Input:

```
3
25.0001
4999.9998
525.023
```

Output:

```
25 1
4999 9998
525 23
```