```
Question 1
Correct
Marked out of 10.00
```

A number is considered to be ugly if its only prime factors are 2, 3 or 5.

[1, 2, 3, 4, 5, 6, 8, 9, 10, 12, 15, ...] is the sequence of ugly numbers.

Task:

Create a program which takes a number n as input and checks if it's an ugly number.

Print ugly if it is ugly, else print not ugly

Hint:

An ugly number U can be expressed as:  $U = 2^a * 3^b * 5^c$ , where a, b and c are non-negative integers.

Input Format

First line contains number to showing the number of test cases.

The following tc lines contains the number n which you need to check whether it is ugly or not.

**Output Format** 

The output contains to number of lines.

Where each line contains the "ugly" or "not ugly" as per the above mentioned rules.

## For example:

| Input | Result   |
|-------|----------|
| 8     | ugly     |
| 2     | ugly     |
| 3     | ugly     |
| 5     | not ugly |
| 0     | ugly     |
| 1     | not ugly |
| -1    | not ugly |
| -2    | not ugly |
| 420   |          |
| 11    | not ugly |
| 0     | ugly     |
| 1     | ugly     |
| 2     | ugly     |
| 3     | ugly     |
| 4     | ugly     |
| 5     | ugly     |
| 6     | not ugly |
| 7     | ugly     |
| 8     | ugly     |
| 9     | ugly     |
| 10    |          |
| 11    | not ugly |
| -1    | not ugly |
| -2    | not ugly |
| -3    | not ugly |
| -4    | not ugly |
| -5    | not ugly |
| -6    | not ugly |
| -7    | not ugly |
| -8    | not ugly |
| -9    | not ugly |
| -10   | ugly     |
| 625   |          |

Answer: (penalty regime: 0 %)

```
wniie num%i==⊌:
                num//=i
 7
       return num==1
8 v def ugly(lst):
9 ▼
      for n in lst:
           status="ugly" if isugly(n) else "not ugly"
print(status)
10
11
12 r=int(input())
13 lst=[]
14 v for k in range(r):
        c=int(input())
15
        lst.append(c)
16
17
    result=ugly(lst)
18
19
20
21
```

|   | Input | Expected | Got      |   |
|---|-------|----------|----------|---|
| ~ | 8     | ugly     | ugly     | ~ |
|   | 2     | ugly     | ugly     |   |
|   | 3     | ugly     | ugly     |   |
|   | 5     | not ugly | not ugly |   |
|   | 0     | ugly     | ugly     |   |
|   | 1     | not ugly | not ugly |   |
|   | -1    | not ugly | not ugly |   |
|   | -2    | not ugly | not ugly |   |
|   | 420   |          |          |   |
| ~ | 11    | not ugly | not ugly | ~ |
|   | 0     | ugly     | ugly     |   |
|   | 1     | ugly     | ugly     |   |
|   | 2     | ugly     | ugly     |   |
|   | 3     | ugly     | ugly     |   |
|   | 4     | ugly     | ugly     |   |
|   | 5     | ugly     | ugly     |   |
|   | 6     | not ugly | not ugly |   |
|   | 7     | ugly     | ugly     |   |
|   | 8     | ugly     | ugly     |   |
|   | 9     | ugly     | ugly     |   |
|   | 10    |          |          |   |
| ~ | 11    | not ugly | not ugly | ~ |
|   | -1    | not ugly | not ugly |   |
|   | -2    | not ugly | not ugly |   |
|   | -3    | not ugly | not ugly |   |
|   | -4    | not ugly | not ugly |   |
|   | -5    | not ugly | not ugly |   |
|   | -6    | not ugly | not ugly |   |
|   | -7    | not ugly | not ugly |   |
|   | -8    | not ugly | not ugly |   |
|   | -9    | not ugly | not ugly |   |
|   | -10   | ugly     | ugly     |   |
|   | 625   |          |          |   |

Passed all tests! ✓

11