## Cube Free Numbers

A cube free number is a number who's none of the divisor is a cube number (A cube number is a cube of a integer like $8(2 * 2$ * 2$), 27(3 * 3 * 3)$ ). So cube free numbers are $1,2,3,4,5,6,7,9$, $10,11,12,13,14,15,17,18$ etc (we will consider 1 as cube free). $8,16,24,27,32$ etc are not cube free number. So the position of 1 among the cube free numbers is 1 , position of 2 is 2,3 is 3 and position of 10 is 9 . Given a positive number you have to say if its a cube free number and if yes then tell its position among cube free numbers.

## Input

First line of the test case will be the number of test case $\mathrm{T}(1<=\mathrm{T}<=100000$ ). Then T lines follows. On each line you will find a integer number n ( $1<=\mathrm{n}<=1000000$ ).

## Output

For each input line, print a line containing "Case $I:$ ", where $I$ is the test case number. Then if it is not a cube free number then print "Not Cube Free". Otherwise print its position among the cube free numbers.

## Example

## Sample Input:

10
1
2
3
4
5
6
7
8
9
10

## Sample Output:

Case 1: 1
Case 2: 2
Case 3: 3
Case 4: 4
Case 5: 5
Case 6: 6
Case 7: 7
Case 8: Not Cube Free
Case 9: 8
Case 10: 9

