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CUBEFR - Cube Free Numbers

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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 T (1 \leq T \leq 100000). Then T lines follows. On each line you will find a integer number n (1 \leq n \leq 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.

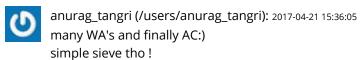
Example

```
Sample Input:
2
3
6
8
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
```

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- newbie_127 (/users/newbie_127): 2017-03-30 19:03:55
 Be careful with counter !! Cost me 4 WA's .
- nilabja16180 (/users/nilabja16180): 2017-03-22 21:34:44 EASY! AC IN ONE GO!
- kass_97 (/users/kass_97): 2016-12-31 09:52:23
 Simple sieve, AC at once



kira28 (/users/kira28): 2016-12-28 13:23:52 another sieve ques :/



madhavgaba (/users/madhavgaba): 2016-12-24 05:24:35 modify sieve and precompute......AC in third go;)



surajmall (/users/surajmall): 2016-10-23 11:13:20 seieve and some smart work needed



kmrrv (/users/kmrrv): 2016-09-15 19:20:27 beware of output format



karan_batra (/users/karan_batra): 2016-08-28 11:13:57 AC in one go: D. Simple modification of sieve.



agralalarocks (/users/agralalarocks): 2016-07-26 22:49:19
Could someone please take a look at my code its VAKNIg on ideone

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Added by: Muhammad Ridowan (/users/ridowan007)

Date: 2011-06-14 Time limit: 0.100s-0.939s

Source limit: 50000B Memory limit: 1536MB

Cluster: Cube (Intel G860) (/clusters/)

Languages: All except: ASM64

Resource: Own. For alternate thanks

Sayef Azad Sakin

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