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A positive integer number is＂Special＂if it is both a square（eg．1，4，9，16， $64 \ldots$ ．．．）and a cube（eg．1，8，27， 64 ．．．）．The smallest special number is 1 ．Now your job is to write a program that finds whether a number less than $\mathbf{1 0 0 0 0 0 0 0 0}$ is special or not．It may be noted that there are only $\mathbf{2 1}$ such numbers within this range and these are 1，64，729，4096，15625，46656，117649，262144，531441，1000000， 1771561，2985984，4826809，7529536，11390625，16777216，24137569，34012224，47045881， 64000000 and 85766121 ．A very childish but legitimate C／C＋＋solution，which would work for positive numbers not exceeding 15624，is shown below．

```
#include<stdio.h>
int main(void)
{
    int num;
    while(scanf("%d",&num) && num)
    {
        if(num==1 || num==64 || num==729 || num==4096)
        printf("Special\n");
        else
        printf("Ordinary\n");
    }
    return 0;
}
A C/C++ code that will work for positive numbers not exceeding 15624
```


## Input

The input file contains at most 1001 lines of input．Each line contains a positive integer less than 100000000．Input is terminated by a line containing a zero．

## Output

For each line of input except the last one produce one line of output．This line contains a string（without the quotes）＂Special＂if the number is special and＂Ordinary＂if the number is not special．Look at the output for the sample input for details．

## Sample Input

Output for Sample Input

| 1 | Special |
| :--- | :--- |
| 2 | Ordinary |
| 64 | Special |
| 100 | Ordinary |
| 15625 | Special |
| 0 |  |

