# 課本習題5.9

# Time limit: 2 sec.

**Problem Description**

寫一個程式分解質因數。輸入一整數n。輸出為n的所有質因數及其次方。輸出時質因數由小排到大。先輸出質因數再輸出次方。例如:已下輸出輸入範例表示

123456 = X X

**Input Format**

The first line contains an integer n which indicates the number of test cases,n<10. Each of the next n lines is a test case which contains a positive number N, 1 < N < 100000000.

**Output Format.**

**每一組測資後面需有換行**

**每一組測資在印出的時候，需將質因數從小到大印，並且將此質因數的次方換行之後印出，**

**質因數之間也需有換行，如下面sample output。**

**Sample**

|  |  |
| --- | --- |
| Sample Input | Sample Output |
| 3  99999989  99999984  99999947 | 99999989  1  2  4  3  1  7  2  17  1  41  1  61  1  4013  1  24919  1 |