# The Swan Station

The Swan is an underground facility on the Island built by the DHARMA Initiative. It was originally designed to be a laboratory to study and manipulate the "unique electromagnetic fluctuations emanating from this sector of the Island". However, after the "incident", DHARMA enacted a special protocol to prevent a potential global catastrophe. This means, individuals entering numbers into a computer.

Your task is to prevent a those catastrophic events. You will receive two input lines of **integers**. First line will be exactly six integers long – we can call it “**The Numbers**”. The next line will be at least six integers long, representing the numbers that must be enter into the computer.

You must start from the **first integer** and check if it can be **divided** by the **First Number**(the first integer from **“The Numbers”** line) without residue. If so, save it somewhere and remove the **First Number**, but if not, the **integer** must be **incremented** by **one** and put at the **end** of the line you read from the console. The process is repeated until you have **six** integers printed on the console.

**For example**:

You receive:

* 4 8 15 16 23 42 - **The Numbers**
* 4 7 14 15 22 42

The first **integer** is 4. It can be divided by the **First Number(4)** without residue(4 % 4 = 0), so you save it somewhere and remove **4** from **The Numbers**. The next **integer** in the queue is **7**, but it cannot be divided by the **new First Number(8)** without residue(7 % 8 = 1), so it goes to the **end** of the queue and we have 14, 15, 22, 42, 8. The next **integer** is 14, it also cannot be divided by the **First Number(8)** without residue(14 % 8 = 7), so we will have 15, 22, 42, 8, 15 and so on. The process must be repeated until you have six integers saved somewhere. The result from the given example will be **4, 8, 15, 16, 23, 84**

# Input

The input will be read from the console. It will consist of two lines holding **integers**.

# Output

The output should hold **six integers** printed on the console, separated by “**,**”.

# Constrains

* The length of the second input line will be in range [6..1000]
* The intgers will be in range [1..100000]

# Examples

|  |  |
| --- | --- |
| **Input** | **Output** |
| 4 8 15 16 23 42  4 7 14 15 22 42 | 4, 8, 15, 16, 23, 84 |
| 18 86 68 1622 9902 6318  155 223 301 4 56 16000 18 86 9902 15 | 18, 86, 68, 16220, 9902, 12636 |
| 60 870 11731 3559 48138 10069  18 86 68 1622 9902 6318 | 120, 1740, 11731, 3559, 48138, 50345 |