**Fireworks show**

*Maria wants to make a firework show for the wedding of her best friend.*

*We should help her to make the perfect firework show.*

First, you will be given **a sequence of integers representing firework effects**. Afterwards you will be given another **sequence of integers representing explosive power**.

You need to start from the **first firework effect** and try to mix it with the **last explosive power**. If the **sum** of their values is:

* **divisible by 3, but it is not divisible by 5** – **create Palm firework** and **remove** **both** materials
* **divisible by 5, but it is not divisible by 3** – **create Willow firework** and **remove** **both** materials
* **divisible by both 3 and 5** – **create Crossette firework** and **remove** **both** materials

Otherwise, **decrease** the value of the **firework effect by 1** and **move** it at the **end** of the sequence. Then, try to mix the same **explosive power** with the next **firework effect.**

If any value is **equal to or below 0,** you should **remove it** from the sequence **before trying to mix it with the other.**

When you have **successfully prepared enough fireworks for the show** or you have **no more firework punches** or **explosive power,** you need tostopmixing**.**

To make the perfect firework show, Maria needs **3 of each** of the **firework types.**

### Input

* On the **first line**, you will receive the integers representing the **firework effects**, **separated** by ", ".
* On the **second line**, you will receive the integers representing the **explosive power**, **separated** by ", ".

### Output

* On the **first** line, print:
  + if Maria **successfully prepared** the firework show: "**Congrats! You made the perfect firework show!**"
  + if Maria **failed** to prepare it: "Sorry. You can't make the perfect firework show."
* On the **second** line, print all firework effects left **if there are any**:
* "**Firework Effects left: {effect1}, {effect2},** **(…)**"
* On the **third** line, print all explosive fillings left **if there are any**:
* " **Explosive Power left: {filling1}, {filling2},** **(…)"**
* Then**,** you need to print **all** fireworks and the **amount you have of them**:
  + **"Palm Fireworks: {count}"**
  + **"Willow Fireworks: {count}"**
  + **"Crossette Fireworks: {count}"**

### Constraints

* All the given numbers will be integers in the range **[-100, 100]**.
* There will be no cases with empty sequences.

### Examples

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| ****Input**** | ****Output**** |
| **5, 6, 4, 16, 11, 5, 30, 2, 3, 27**  **1, 13, 5, 3, -7, 32, 19, 3, 5, 7, 22** | **Congrats! You made the perfect firework show!**  **Palm Fireworks: 4**  **Willow Fireworks: 3**  **Crossette Fireworks: 3** |
| ****Comment**** | |
| 1) 5 + 22 = 27 is devisible by 3 -> Palm Firework. Remove both.  2) 6 + 7 = 13 -> can't create firework. Firework effect should be decreased with 1 -> 5 and moved at the end  3) 4 + 7= 11 -> can't create firework. Firework effect should be decreased with 1 -> 3 and moved at the end  3) 16 + 7 = 23 -> can't create firework. Firework effect should be decreased with 1 -> 15 and moved at the end  4) 11 + 7 = 18 is devisible by 3 -> Palm Firework. Remove both.  5) 5 + 5 = 10 is devisible by 5 -> Willow Firework. Remove both.  6) 30 + 3 = 33 is devisible by 3 -> Palm Firework. Remove both.  7) 2 + 19 = 21 is devisible by 3 -> Palm Firework. Remove both.  8) 3 + 32 = 35 is devisible by 5 -> Willow Firework. Remove both.  9) (-7) is negative, so we remove it before mixing.  10) 27 + 3 = 30 is devisible by 5 and 3 -> Crossette Firework. Remove both.  11) 5 + 5 = 10 is devisible by 5 -> Willow Firework. Remove both.  12) 3 + 13 = 16 -> can't create firework. Firework effect should be decreased with 1 -> 2 and moved at the end  13) 15 + 13 = 28 -> can't create firework. Firework effect should be decreased with 1 -> 14 and moved at the end  14) 2 + 13 = 15 is devisible by 5 and 3 -> Crossette Firework. Remove both.  15) 1 + 14 = 15 is devisible by 5 and 3 -> Crossette Firework. Remove both.  We have enough fireworks to make a firework show. | |

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| ****Input**** | ****Output**** |
| **-15, -8, 0, -16, 0, -22**  **10, 5** | **Sorry. You can't make the perfect firework show.**  **Explosive Power left: 10, 5**  **Palm Fireworks: 0**  **Willow Fireworks: 0**  **Crossette Fireworks: 0** |
| ****Comment**** | |
| After removing all the invalid integers, the firework effects's sequence is empty and the program ends. | |