## Problem 4 – Number Wars

There is one very popular card game for little children - "Voina". Most of us have played this game before and it is well known that the game is pretty easy. So in this task you will implement a little different version of the game.

There are two players. Each of them have numbers in his hand. Numbers will finish with English letter and will be something like **"11f", "53g", "55g", "3k", "66666p"**.

On each turn of the game each player put top (longest been in deck) number on field. Player with bigger number get both cards and put them on the bottom of his deck in decreasing order (biggest number go first in deck).

It is easy when there is winner, but what happens when numbers are equal. Then every player has to put 3 more numbers on the field. Again check for winner, but this time you need to check for bigger sum of letters at the end of numbers. Letter representing, their number in English **a -> 1, b -> 2, c -> 3** etc. Player with biggest sum of these 3 cards get all 8 cards from the field and put them in his deck. If there is draw, players put 3 new cards from their decks.

Game ends in two conditions, if any player lose all his numbers he lose the game. After 1000000 turns, if both players still have cards, player with more card win the game.

### Input

On first line you will receive first player numbers separated with space.

On second line you will receive second player numbers separated with space.

### Output

You need to print single line with winner or draw: **"First player win", "Second player win" or "Draw"**

### Constraints

* Each player will have N numbers, where 1 < N < 1000
* Each number will contain will be integer with single letter at the end
* Time limit: 0.3 sec. Memory limit: 16 MB.

### Examples

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| **Input** | **Output** |
| 20y 28j 45s 21i 81i  26z 9f 80a 68g 67z | **First player win** |

|  |  |
| --- | --- |
| **Input** | **Output** |
| 111j 33k 88k 99p 77k 5p 111j 33k 88k 99p 77k 5p 111j 33k 88k 99p 77k 5p 6p  111j 33k 88k 99p 77k 5p 111j 33k 88k 99p 77k 5p 111j 33k 88k 99p 77k 5p 6p | Draw |

|  |  |
| --- | --- |
| **Input** | **Output** |
| 111j 33k 88k 99p 77k 5p 111j 33k 88k 99p 77k 5p 111j 33k 88k 99p 77k 5p 6p  111j 33k 88k 99p 77k 5p 111j 33k 88k 99p 77k 5p 111j 33k 88k 99p 77k 5p 6a | Draw |