Given a message containing words, write a program to print the encoded message according to the below rules:

1. Write the words one below the other to form a 2D matrix and identify the largest word
2. Fill the empty places with the sum of ASCII values of the characters in the current and previous column of the largest word
3. Generate the encoded message by combining the elements column wise

**Note:** There will be only one largest word in the message

**Example:**

**Input Message**:  "I AM A SPY"

**Largest Word**: SPY

**Matrix Representation :**

|  |  |  |
| --- | --- | --- |
| I |  |  |
| A | M |  |
| A |  |  |
| S | P | Y |

**Fill the empty cells:**

|  |  |  |
| --- | --- | --- |
| I | ASCII(S)+ASCII(P) = 163 | ASCII(P)+ASCII(Y) = 169 |
| A | M | ASCII(P)+ASCII(Y) = 169 |
| A | ASCII(S)+ASCII(P) = 163 | ASCII(P)+ASCII(Y) = 169 |
| S | P | Y |

**Final Matrix:**

|  |  |  |
| --- | --- | --- |
| I | 163 | 169 |
| A | M | 169 |
| A | 163 | 169 |
| S | P | Y |

Encoded Message : IAAS163M163P169169169Y

**Input Format:**

Read the message from standard input stream

**Output Format:**

Print the encoded message to standard output stream

|  |  |  |
| --- | --- | --- |
| **Sample Input** | **Sample Output** | **Explanation** |
| I AM A SPY | IAAS163M163P169169169Y |  |
| Send help | Sheenldp |  |

Given two parallel arrays, one of them containing IDs of dolls and other containing their corresponding heights, arrange the dolls in ascending order of their heights and print the IDs. Both the arrays are of equal size (N) having unique elements.

Read from standard input and print the output to standard output.

Input format: First line contains the value of N. Second line contains the ID of the dolls separated by comma and the third line contains the height of the dolls separated by comma

Output format: Print the comma separated IDs

|  |  |  |
| --- | --- | --- |
| **Sample Input** | **Sample Output** | **Explanation** |
| 5 1001,1002,1003,1004,1005 800,300,500,200,100 | 1005,1004,1002,1003,1001 |  |

**Languages**: Python 3,C#,Java,C++,C,Scala,Go,Perl,Bash,Plain JavaScript,R,PHP,Ruby,Python,Clojure

Given a list of strings, each string containing the ticket information of passengers, write a program to print the ticket ID of all the passengers.

Input Format:

Ticket information of all the passengers are given in a single line, comma-separated. Ticket information of a passenger will be in the below format:

<source>:<destination>:<mobile number>

Read the input from the standard input.

Output format:

Print the comma-separated ticket IDs of all the passenger to the standard output. Ticket ID follows the below format:

<first two characters of source><last two characters of destination><sum of the numbers present in even indices (including 0) of the mobile number><sequence number of the passenger in the input list starting with 1>

|  |  |  |
| --- | --- | --- |
| **Sample Input** | **Sample Output** | **Explanation** |
| Paris:Delhi:9945672345,Berlin:Brussels:9456723456 | Pahi251,Bels292 |  |

**Languages**: Python 3,C#,Java,C++,C,Scala,Go,Perl,Bash,Plain JavaScript,R,PHP,Ruby,Python,Clojure