

# Tickets Scan

*Your next task is to extract information about a flight.*

You will be given **2 parameters**. The **first** one is a **string** you need to extract the information from. The **second** one will be the **information you need to print**.

The information to extract is as follows:

## Passenger name:

- Starts with a **space** (' ')
- Consists of **2 or 3 names** (upper and lower-case letters)
- The names should be **separated by a single dash** ('-')
- Each name should **start with an upper-case letter**
- If there are **3 names**, the **second one** should end with a dot ('.')
- If there are **2 names**, the **second** should not contain any dots
- Ends with a **space** (' ')
- **Valid** examples with **2 names**: ' Test-Testov ', ' V-N '
- **Valid** examples with **3 names**: ' T-T.-Testov ', ' Valid-V.-Name '

## Airport:

- Starts with a **space** (' ')
- Should consist of **3 upper-case letters**, the symbol '/' and **3 more upper-case letters**
- Ends with a **space** (' ')
- **Valid** airports are: ' SOF/VAR ', ' VIE/AIR '

## Flight number:

- Starts with a **space** (' ')
- Followed by **1 to 3 upper-case letters**
- Followed by **1 to 5 digits**
- Ends with a **space** (' ')
- **Valid** flight numbers are: ' DWF24 ', ' S43159 ', ' OE314 '

## Company:

- Starts with dash and space '- '
- Followed by **one or more letters** (starting with an upper-case letter)
- Followed by '\*'
- Followed by **one or more letters** again (starting with an upper-case letter)
- Ends with a space (' ')
- **Valid** companies: '- Wizz\*Air ', '- X\*Y '

## Input

**Two parameters:** the string you have to extract the information from and the command for the output

## Output

**4 different type of outputs** depending on the **second** parameter:

'name' – print 'Mr/Ms, {name}, have a nice flight!'

'flight' – print 'Your flight number {flightNumber} is from {fromAirport} to {toAirport}.'

'company' – print 'Have a nice flight with {companyName}.'

'all' – print 'Mr/Ms, {name}, your flight number {flightNumber} is from {fromAirport} to {toAirport}. Have a nice flight with {company}.'

The name should be printed **without the '-'** (if any) and **with spaces instead**:

' STEF-T.-Stefanov ' -> 'STEF T. Stefanov'.

The **company** should be printed **without the '-'** and the '\*':

' - Wizz\*Air ' -> 'Wizz Air'.

The **flight number** should be printed **without the spaces in the front and back**:

' OS806 ' -> 'OS806'

## Examples

Input	Output
'ahah Second-Testov )*)&&ba SOF/VAR ela** FB973 - Bulgaria*Air -opFB900 pa-SOF/VAr//_- T12G12 STD08:45 STA09:35 ', 'all'	Mr/Ms, Second Testov, your flight number FB973 is from SOF to VAR. Have a nice flight with Bulgaria Air.
' TEST-T.-TESTOV SOF/VIE OS806 - Austrian*Airlines T24G55 STD11:15 STA11:50 ', 'flight'	Your flight number OS806 is from SOF to VIE.