# Problem 3 – Valid Usernames

You are part of the back-end development team of the next Facebook. You are given **a line of usernames**, between one of the following symbols**: space, “/”, “\”, “(“, “)”.** First you have to export all **valid** usernames. A valid username **starts with a letter** and can contain **only letters, digits and “\_”**. It cannot be **less than 3 or more than 25 symbols** long. Your task is to **sum** the length of **every** **2 consecutive** **valid** usernames and print on the console the 2 valid usernames with **biggest** **sum** of their **lengths,** each on a separate line.

### Input

The input comes from the console. One line will hold all the data. It will hold **usernames,** divided by the symbols: **space, “/”, “\”, “(“, “)”.**

The input data will always be valid and in the format described. There is no need to check it explicitly.

### Output

Print at the console the 2 **consecutive** **valid usernames** with the **biggest** **sum** of their lengths each on a separate. If there are **2 or more couples** of usernames with the same sum of their lengths, print he **left most**.

### Constraints

* The input line will hold characters in the range [0…9999].
* The usernames should **start with a letter** and can contain **only letters, digits and “\_”**.
* The username cannot be **less than 3 or** **more than 25 symbols** long.
* Time limit: 0.5 sec. Memory limit: 16 MB.

### Examples

|  |  |
| --- | --- |
| **Input** | **Output** |
| ds3bhj y1ter/wfsdg 1nh\_jgf ds2c\_vbg\4htref | wfsdg  ds2c\_vbg |

|  |  |
| --- | --- |
| **Input** | **Output** |
| min23/ace hahah21 ( sasa ) att3454/a/a2/abc | hahah21  sasa |

|  |  |
| --- | --- |
| **Input** | **Output** |
| chico/ gosho \ sapunerka (3sas) mazut lelQ\_Van4e | mazut  lelQ\_Van4e |