

Problem 3. Football League

You will be given information about results of football matches. Create a standings table by points. For win the team gets 3 points, for loss – 0 and for draw – 1. Also find the top 3 teams with most scored goals in descending order. If two or more teams are with same goals scored or same points order them by name in ascending order.

The name of each team is **encrypted**. You must **decrypt** it before proceeding with calculating statistics. You will be given some **string key** and the **team name will be placed between that key in reversed order**.

For example: the key: "???";

String to decrypt: "kfle???airagluB???gertIt%" -> "airagluB" -> "Bulgaria"

Also you should ignore the letter casing in the team names. For example:

buLgariA = BuLGARia = buLGARIA = BULGARIA

Input / Constraints

- On the **first line** of input you will get the **key** that will be used for decryption
- On the next lines until you receive "**final**" you will get lines in format:
`{encrypted teamA} {encrypted teamB} {teamA score}:{teamB score}`
- Team scores will be integer numbers in the range $[0...2^{31}]$

Output

- Print the standings table ordered descending by points in format:

```
League standings:
{place}. {TEAM NAME} {points}
...
```

Where **place** is a number in range $[1... \text{number of teams}]$.

- Then you should print the top 3 team **ordered by goals in descending order** in format:

```
Top 3 scored goals:
- {TEAM NAME} -> {goals}
- {TEAM NAME} -> {goals}
- {TEAM NAME} -> {goals}
```

- All team's names should be **uppercase**.
- For more clarification, see the examples on the next page.

Examples

Input	Output
<pre> ?? ??ecnarF?? ??kramneD?? 0:0 ..??airagluB??32 ??dnalgnE??gf 3:2 Fg??NIAPS?? fgdr%#\$??YNAMREG??gtr 3:4 ??eCnArF?? >>??yLATi??<< 2:2 final </pre>	<p>League standings:</p> <ol style="list-style-type: none"> 1. BULGARIA 3 2. GERMANY 3 3. FRANCE 2 4. DENMARK 1 5. ITALY 1 6. ENGLAND 0 7. SPAIN 0 <p>Top 3 scored goals:</p> <ul style="list-style-type: none"> - GERMANY -> 4 - BULGARIA -> 3 - SPAIN -> 3
Input	Output
<pre> KZL fdKZLairagluBKZL KZLkramneDKZLll 2:0 kzljjjKZLAiRaGluBKZL KZLYlATIKZLkk 1:1 KZLkRamnedKZL KZLYlatiKZL 4:4 final </pre>	<p>League standings:</p> <ol style="list-style-type: none"> 1. BULGARIA 4 2. ITALY 2 3. DENMARK 1 <p>Top 3 scored goals:</p> <ul style="list-style-type: none"> - ITALY -> 5 - DENMARK -> 4 - BULGARIA -> 3