Question 1

Input is a sentence with yelling words which are multiple question marks "?" or exclamation marks "!". Your task is to transform the sentence by using only one "?" or "!" for each yelling word.

For example:

| Input | Result |
| --- | --- |
| Why??? | Why? |
| English!!!!! or Spanish????? | English! or Spanish? |
| It!!! is raining. | It! is raining. |
| Don't!!! Touch me!!!! | Don't! Touch me! |
| It is broken!!!!!!! | It is broken! |
| Why!!! are you running????? | Why! are you running? |

Question 2

Return true if the string "cat" and "mouse" appear the same number of times in the given string.

For example:

| Input | Result |
| --- | --- |
| catmouse | true |
| catcat | false |
| 12cat2m2mouse | true |
| mc | true |
| mouse | false |
| catmousecatmous | false |

Question 3

Write a program to add digit from a given 9-digits number according to the following conditions:

1. If the middle digit is an odd number, add all digits which are in the odd position.
2. If the middle digit is an even number, add all digits which are in the even position.

Note that the position starts at 0 index (even number).

For example:

| Input | Result |
| --- | --- |
| 938524187 | 27 |
| 298103857 | 25 |
| 111242799 | 22 |
| 883491819 | 14 |
| 390472321 | 17 |

Question 4

Write a program to print the text inside-out (reverse the text from the middle to both ends). For example, giving the text "elephant", the output is "peletnah". If the given text is "hello", the output should be "ehlol".

| Input | Result |
| --- | --- |
| elephant | peletnah |
| hello | ehlol |
| programming | rgorpagnimm |
| java | ajav |
| pneumonoultramicroscopicsilicovolcanoconiosis | pocsorcimartluonomuenpisisoinoconaclovocilisc |

Question 5

You are given one positive integer N. Write the program to output rectangle with width N and height N by using '\*' for the border and diagonal of rectangle and use '-' for the other part of rectangle.

(look at sample output for clarity)

| Input | Result |
| --- | --- |
| 5 | \*\*\*\*\*  \*\*-\*\*  \*-\*-\*  \*\*-\*\*  \*\*\*\*\* |
| 6 | \*\*\*\*\*\*  \*\*--\*\*  \*-\*\*-\*  \*-\*\*-\*  \*\*--\*\*  \*\*\*\*\*\* |
| 4 | \*\*\*\*  \*\*\*\*  \*\*\*\*  \*\*\*\* |
| 3 | \*\*\*  \*\*\*  \*\*\* |
| 7 | \*\*\*\*\*\*\*  \*\*---\*\*  \*-\*-\*-\*  \*--\*--\*  \*-\*-\*-\*  \*\*---\*\*  \*\*\*\*\*\*\* |
| 8 | \*\*\*\*\*\*\*\*  \*\*----\*\*  \*-\*--\*-\*  \*--\*\*--\*  \*--\*\*--\*  \*-\*--\*-\*  \*\*----\*\*  \*\*\*\*\*\*\*\* |

Question 6

Write the program to print the given word in the X cross pattern. If the length of the word is not an odd number, then the output will print "Invalid word". The input is a word and the output is the word printed in the X cross format or the text "Invalid word".

| Input | Result |
| --- | --- |
| where | w e  h r  e  h r  w e |
| when | Invalid word |
| csc | c c  s  c c |
| java | Invalid word |
| programming | p g  r n  o i  g m  r m  a  r m  g m  o i  r n  p g |