class Main

{

public static String convertSentence(String sentence)

{

int count = 0;

String output = "";

String[] words = sentence.split(" ");

while(count < words.length)

{

String word = words[count];

if(word.length()%2 == 0)

{

output += convertEvenWord(word);

if(count != words.length - 1)

output += " ";

}

else

{

output += convertOddWord(word);

if(count != words.length - 1)

output += " ";

}

count++;

}

return output;

}

public static String convertEvenWord(String word)

{

int count = 0;

String output = "";

if(word.length() == 2)

{

output = word.toUpperCase();

}

if(word.length() == 4)

{

//String[] stringArray = "sentence".split("");

while(count<word.length())

{

output += "\*";

count++;

}

}

if(word.length() == 6)

{

output += word.charAt(5);

output += word.charAt(1);

output += word.charAt(3);

output += word.charAt(2);

output += word.charAt(4);

output += word.charAt(0);

}

if(word.length() >= 8)

{

while(count < word.length())

{

output += word.charAt(count);

if(count == word.length()/2 - 1)

{

output += " ";

}

count++;

}

}

return output;

}

public static String convertOddWord(String word)

{

int count = 0;

String output = "";

if(word.length() == 1)

{

output = "%";

}

if(word.length() == 3)

{

output+= "<";

output+= word.charAt(1);

output+= ">";

}

if(word.length() == 5)

{

while(count < 5)

{

String character = Character.toString(word.charAt(count));

if(character.toUpperCase() != character)

{

output += character.toUpperCase();

}

else

{

output += character.toLowerCase();

}

count++;

}

}

if(word.length() >= 7)

{

while(count < word.length())

{

output+= word.charAt(count);

count = count+2;

}

}

return output;

}

}