1. Task

Write an algorithm and a program code corresponding to it, which will have the following requirements:

1. String **T** and symbols **v** and **u** will be inputted from keyboard
2. Program will create another string **Q**, which elements are the symbols from string **T** with the symbols **v** exchanged with symbols **u** and the other way around.
3. The string **Q** will be displayed on screen and written into file **S**.

2. Task

Write an algorithm and a program code corresponding to it, which will have the following requirements:

1. The program will read real valued ($x, \varepsilon \in \mathbb{R}$) parameters **x** and $\boldsymbol{\varepsilon}$ **(0 <** $\boldsymbol{\varepsilon}$ **< 1)** from file **S**.
2. Program will create a real valued array **Y**, with elements:
   $y_1 = \frac{x}{1!}$
   $y_2 = \frac{x^3}{3!}$
   $y_3 = \frac{x^5}{5!}$
   ...
3. Program outputs to screen the number of elements **k** in array **Y** and also all of the elements with their indexes.

3. Task

Write an algorithm and a program code corresponding to it, which will have the following requirements:

1. Program inputs positive integers from a file (every number is less than 3889)
2. Program outputs each inputted number and its Roman notation, row by row. For example
   5 V
   11 XI
   1 I
   100 C
   …