## Polynomial Equations

You are given the polynomial $F(x)$ as the sum of monomials. Each monomial has the form: [coefficient $\left.{ }^{\star}\right] \times\left[^{\wedge}\right.$ degree] or [coefficient], where coefficient and degree are integers such that $-30000<=$ coefficient $<=30000,0<=$ degree $<=6$. The parameters given in [] can be skipped.
In this problem you have to find all solutions of the equation: $F(x)=0$.

## Input

$t$ - the number of test cases, then $t$ test cases follow. [ $t<=100$ ]
Each line contains one polynomial $F(x)$ given as string $s$ in the form described above. The length of string $s$ is not more than 300 characters.

## Output

For each test case output all solutions (including repeated) of the given equation in nondecreasing order. All solutions lie within the interval [-100.0; 100.0]. Each solution must be given with an error of not more than 0.01 . It's guaranteed that all solutions are real, not complex.

## Example

## Input:

2
$x^{\wedge} 4-6^{*} x^{\wedge} 3+11^{*} x^{\wedge} 2-6^{*} x$
$-x^{\wedge} 2+2^{*} x-1$

## Output:

0.001 .002 .003 .00
1.001 .00

