

Question 04:-

Given a function $f(x)$ on floating number x and two numbers 'a' and 'b' such that $f(a)*f(b) < 0$ and $f(x)$ is continuous in $[a, b]$. Here $f(x)$ represents algebraic equation. You have to find root of function in interval $[a, b]$ upto three digits after decimal.

Input:

t = number of test case;

Y = coefficient sequence of $N+1$; exp:- equation $x^3-x^2+2=0$ coefficient sequence is [1 -1 0 2];

a ,

b= interval point;

output:-

r = root of function in given interval;

if root is not exist in given interval then **print "not exist"**;

Sample input:-

3

[1 -1 0 2]

-200

300

[1 0 -1 -2]

1

2

[1 0 1 -1]

1

2

Sample output:

-1.000

1.521

not exist