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import numpy as np
import math
n = 100
def f(x):
    return x**2
c = 1
E = 0.1
d = 0.001
x1 = c
x2 = c
delx = 10**(-8)
def fPrime(x):
    return (f(x+delx)-f(x-delx))/(2*delx)
def L(x):
    return f(c)+fPrime(c)*(x-c)

for i in range(n):
    x1-=d
    if abs(f(x1)-L(x1)) <= E:
        print(x1)
        break
    else:
        print("No such x1 can be found!")
        break
for i in range(n):
    x2 += d
    if abs(f(x2)-L(x2)) <= E:
        print(x2)
        break
    else:
        print("No such x2 can be found!")
```

```
0.999
1.001
```