```
import numpy as np
from sympy import sympify
class LinearSpline():
  def expandParams(self, X, Y):
     n = len(X)
     new_X = np.zeros(n)
     new_Y = np.zeros(n)
     for i in range(n):
       new_X[i] = X[i]
       new_Y[i] = Y[i]
     points = np.array((new_X, new_Y)).T
     return points
  def compute(self, params):
     X = params["X"]
     Y = params["Y"]
     points = self.expandParams(X, Y)
     points = np.array(points)
     n = len(points)
     splines = []
     for i in range(n-1):
       segment = self.computeSegment(points[i], points[i+1])
       splines.append(segment)
     function = []
     for i in range(n-1):
       function.append([splines[i], ^{"}\{x0\} \le x \le ^{x1}].format(
          x0=points[i][0], x1=points[i+1][0])]
     return function
  def computeSegment(self, point0, point1):
     segment = \frac{fx1} + (fx1) - \frac{fx0}{(x1)} - \frac{x0}{x^2}.format(
       fx1=point1[1],
       fx0=point0[1],
       x1=point1[0],
       x0=point0[0])
     return str(sympify(segment))
points = \{"X":[0,1,2,3],"Y":[0,1,1,0]\}
x = LinearSpline()
print(x.compute(points))
```