p1(x,y)

L2

crossPoint2

L1

crossPoint1

L0

p0(x,y)

Input

L0

L0 (p0(x,y), p1(x,y), true, true)

Output

L0
L1
L2

L0 (p0(x,y), crossPoint1, true, false)

L1 (crossPoint1, crossPoint2, false, false)

L2 (crossPoint2, p1(x,y), false, true)