# Exercise and Practice

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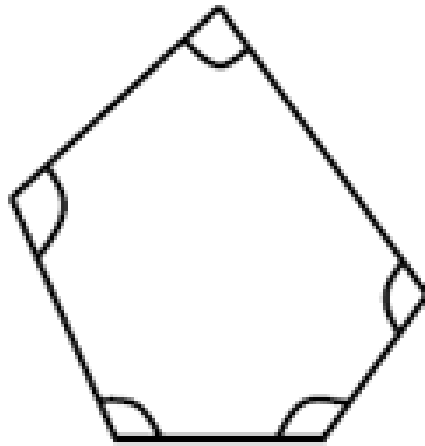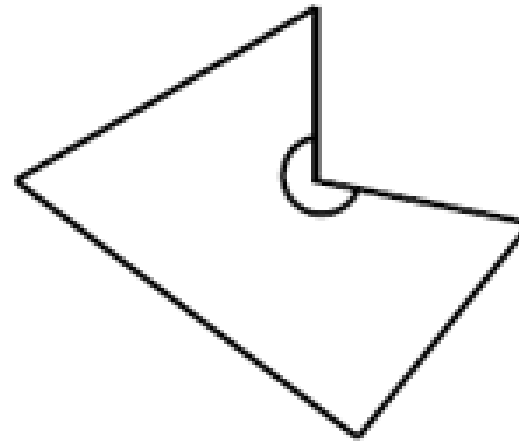
# Background

- **Concave Polygon（凹多边形） VS. Convex Polygons（凸多边**
  **形）**



convex polygon          concave polygon

# Practice

- **Requirements**

  - **Basic:**

    - **Print the type of the polygon according to given points.**

      - **Sample input file**

        - **0,0 2,2 3,1**
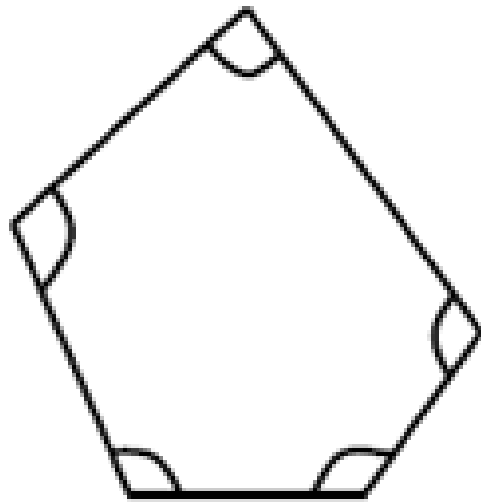
      - **Print**

  - **Advanced:**

    - **If the polygon is concave, split it into some convex polygons.**
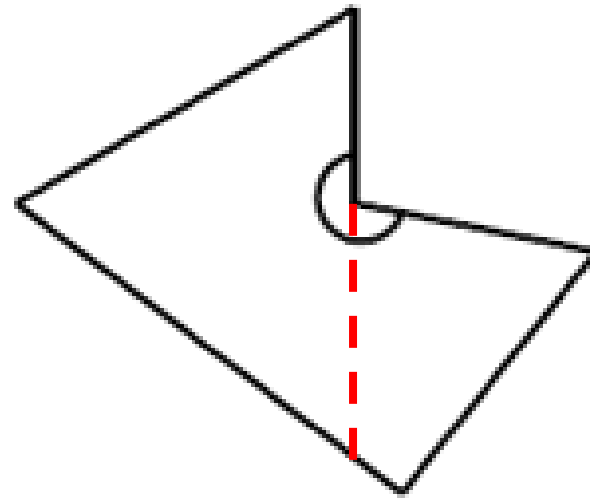
      - **Store the results in convex.out**

    - **If the polygon is concave, split it into some convex polygons.**

      - **Store the results in triangle.out**
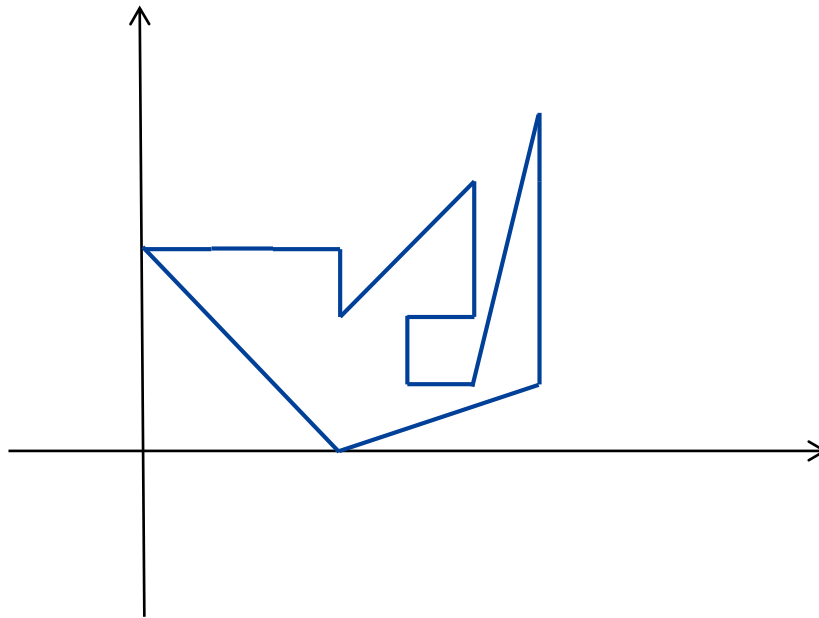
convex polygon

concave polygon

# Example



0,3    3,3    3,2    5,4    5,2

4,2    4,1    5,1    6,5    6,1

3,0

谢谢！