

**Question:** [Convex hull]

**Description:**

In mathematics, the convex hull of a set  $X$  of points in the Euclidean plane is the smallest convex set that contains  $X$ . Formally, the convex hull may be defined as the following rules:

- The unique minimal convex set containing  $X$ .
- The intersection of all convex sets containing  $X$ .
- The set of all convex combinations of points in  $X$ .
- The union of all simplexes with vertices in  $X$ .

**Goal:**

Please design an algorithm to find the Minimum Convex Polygon (MCP).

**Input:**

1. Each line has only one point in the form "int  $x$  int  $y$ ".
2. Each element of a pair is separated by a space.
3. Tests will contain various numbers of points.

Please be careful of that we won't provide numbers of points.

**Output:**

1. Please output the MCP from the point with minimal value of  $x$ -axis anticlockwise.
2. Each element of a pair is separated by a space.

**Sample Input:**

2 5  
3 3  
2 2  
1 1  
3 2  
3 1  
4 9  
4 3  
3 10

**Sample Output:**

1 1  
3 1  
4 3  
4 9  
3 10

**Illustration:**

