Given a directed graph find its strongly connected components.

**Input**

First line: N ( 0&lt;N&lt;=100000), number of nodes.

Second line: M ( 0&lt;N&lt;=300000), number of edges.

Next M lines, each: U V (0&lt;=U, V&lt;N), defines an edge from U to V.

**Output**

Strongly Connected Components. See sample for clarification

|  |  |
| --- | --- |
| 8  8  1 3  0 1  3 0  3 7  7 3  5 6  6 4  6 5 | 6 5  4  2  1 7 3 0 |