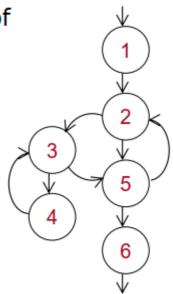
编译原理 第12次作业

Exercise 12.1

- Given the following flow graph:
 - Compute the dominators of all nodes.
 - Find all back edges in the flow graph.
 - Find all natural loops defined by each back edge.



答:

- 1. D(1)={1}
 - $D(2)=\{1,2\}$
 - $D(3)=\{1,2,3\}$
 - $D(4)=\{1,2,3,4\}$
 - $D(5)=\{1,2,5\}$
 - D(6)={1,2,5,6}
- 2. 4->3 5->2
- 3. {3,4} defined by 4->3
 - {2,3,4,5} defined by 5->2