

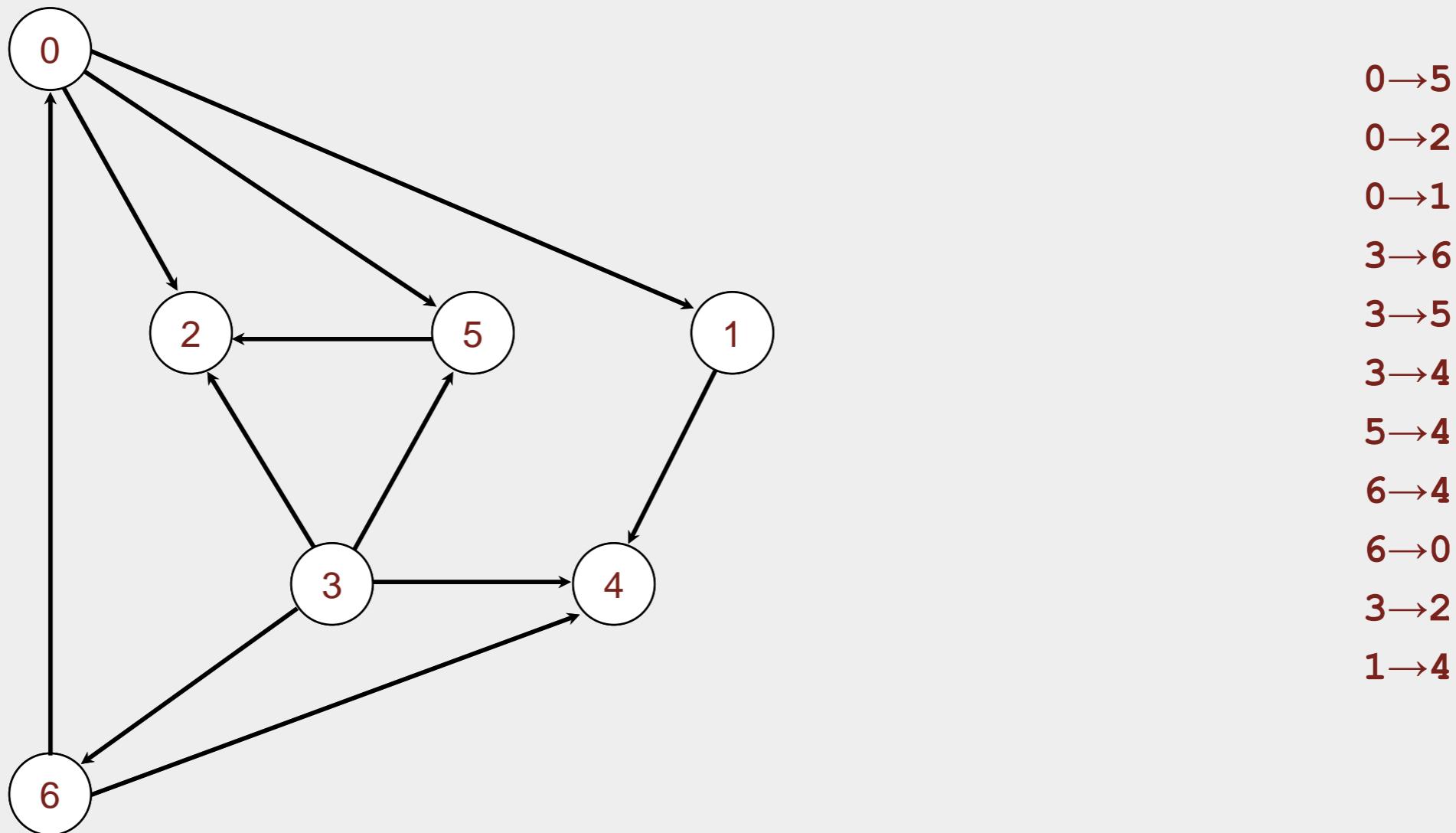
4.2 Topological Sort demo



click to begin demo

Topological sort algorithm

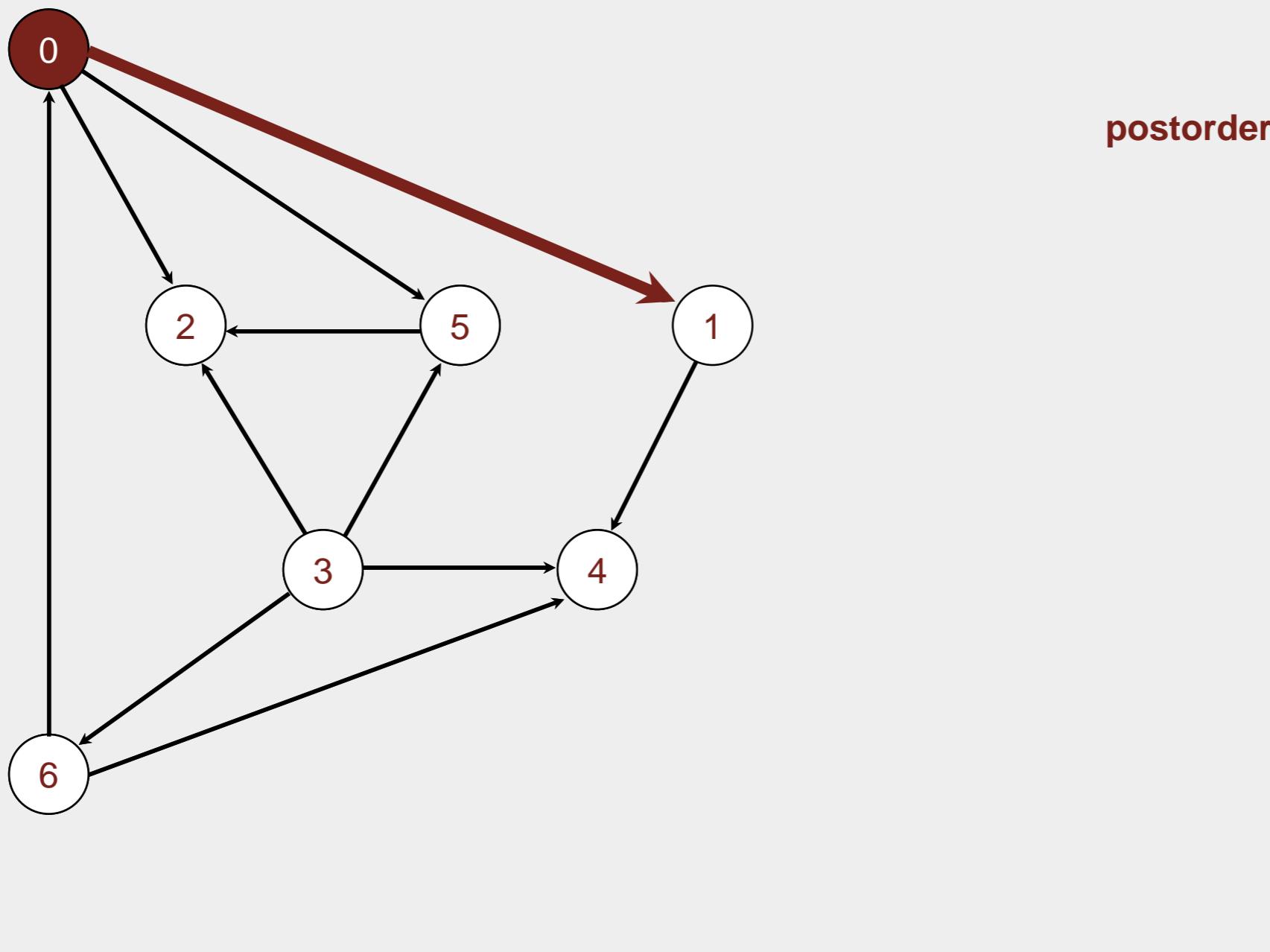
- Run depth-first search.
- Return vertices in reverse postorder.



a directed acyclic graph

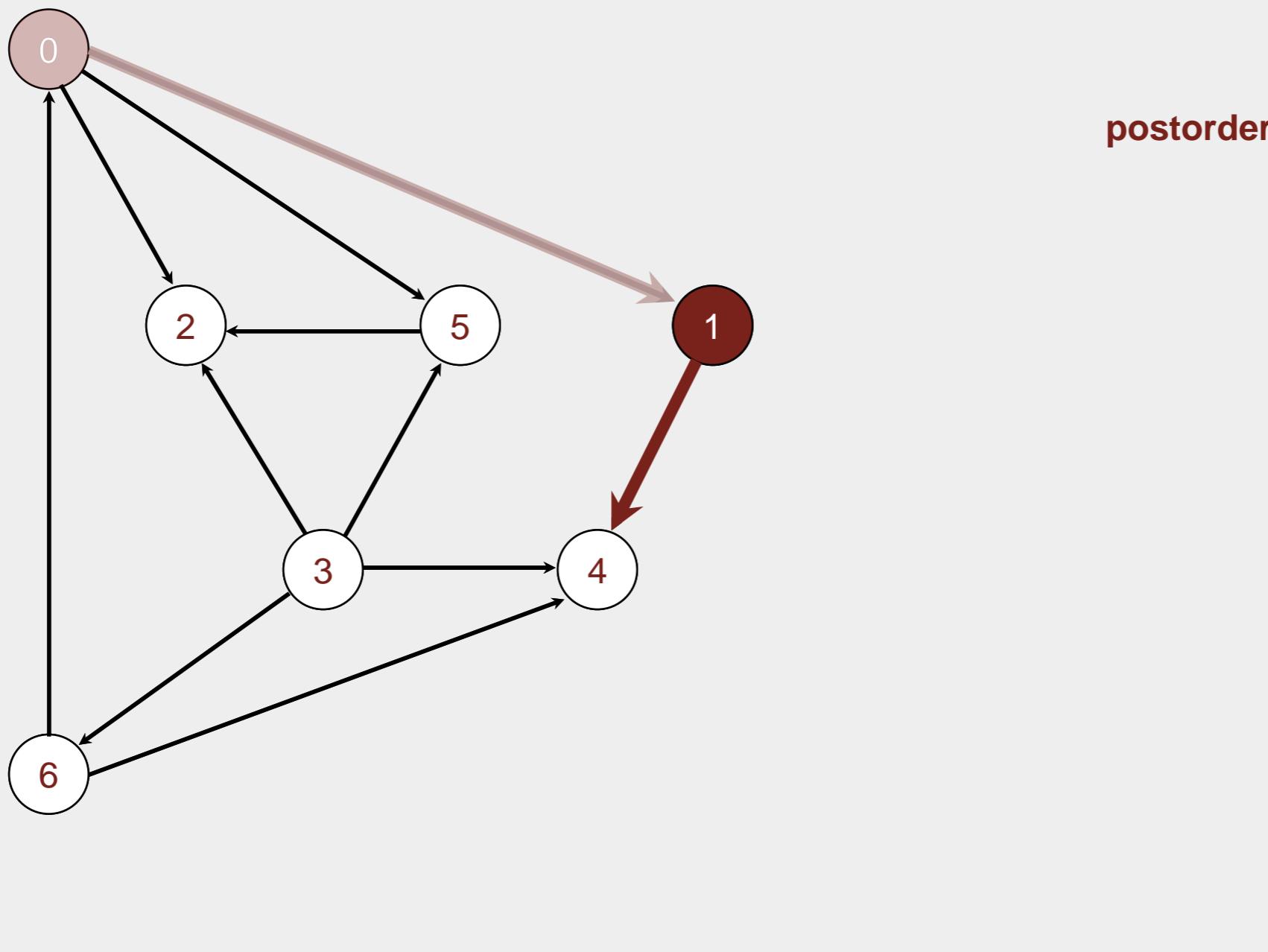
Topological sort algorithm

- Run depth-first search.
- Return vertices in reverse postorder.



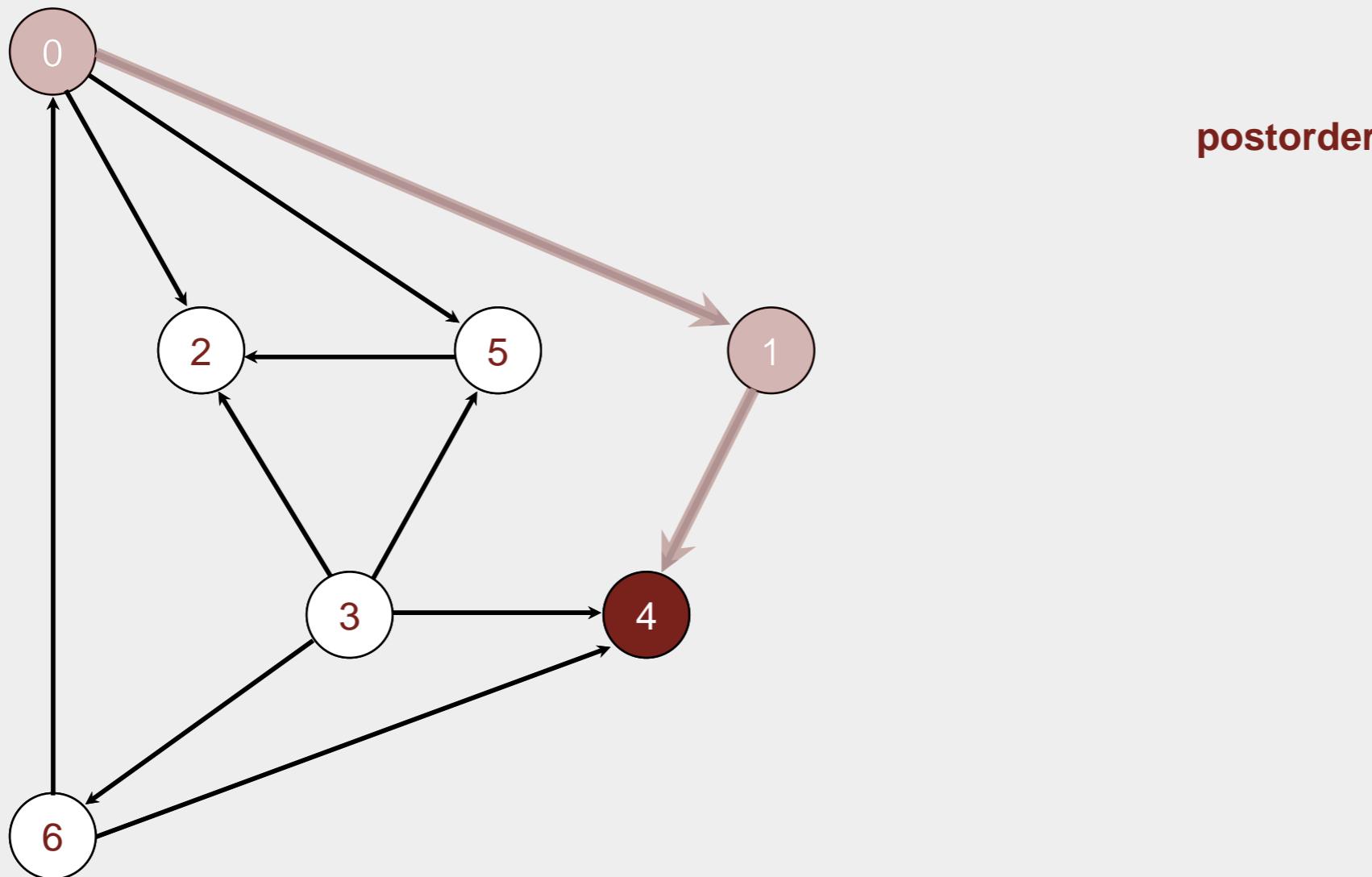
Topological sort algorithm

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Topological sort algorithm

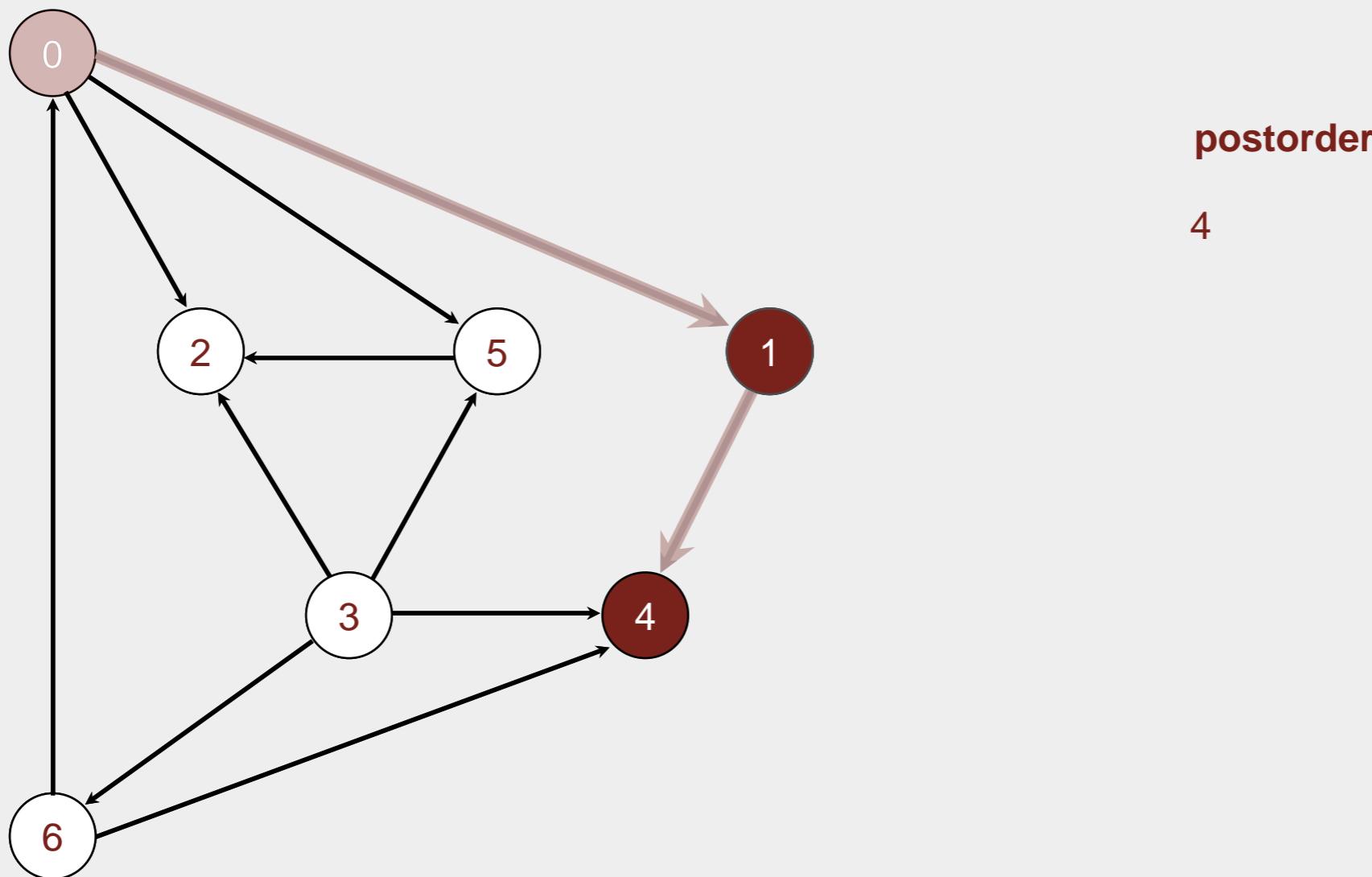
- Run depth-first search.
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visit 4

Topological sort algorithm

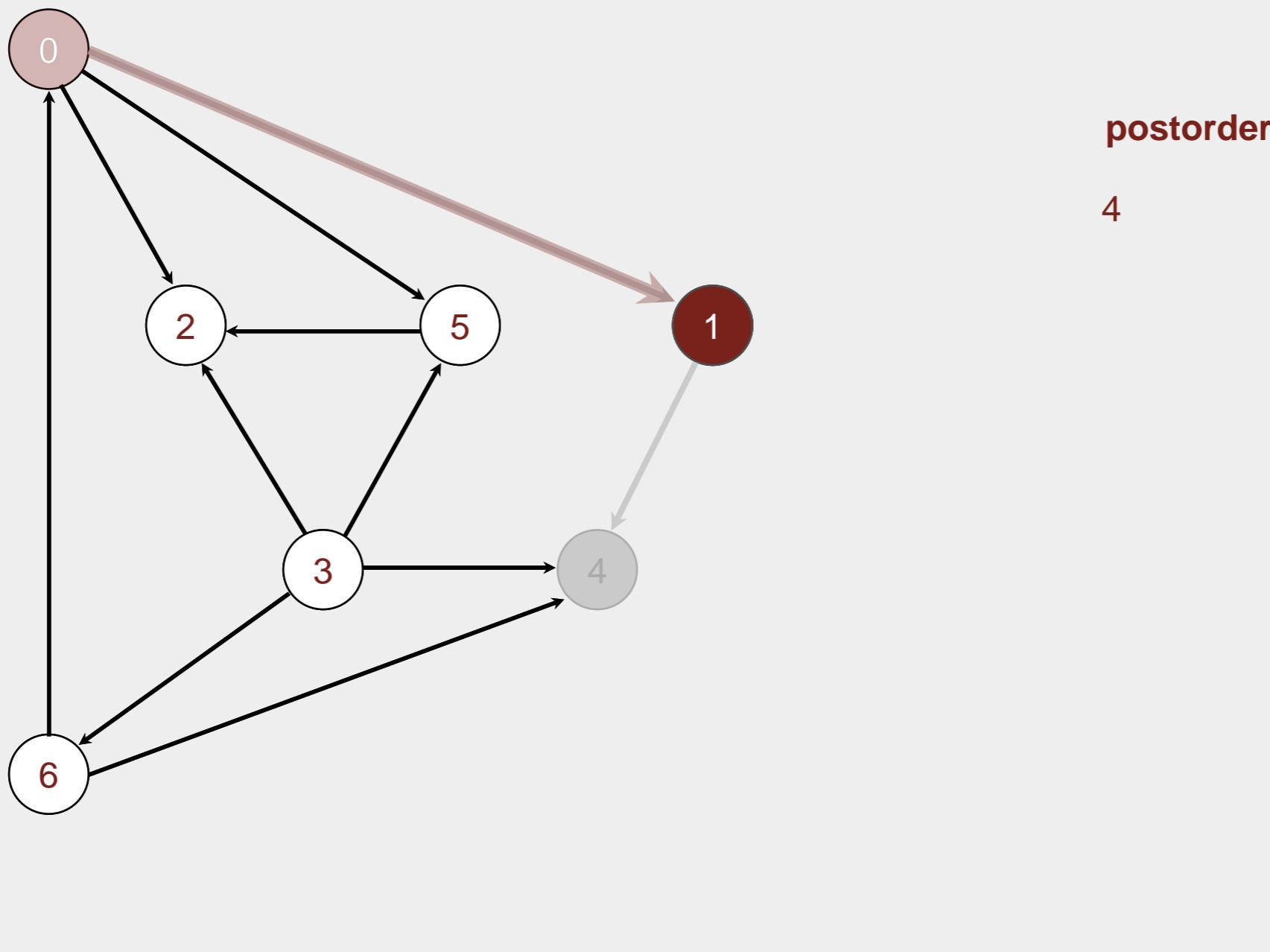
- Run depth-first search.
- Return vertices in reverse postorder.



4 done

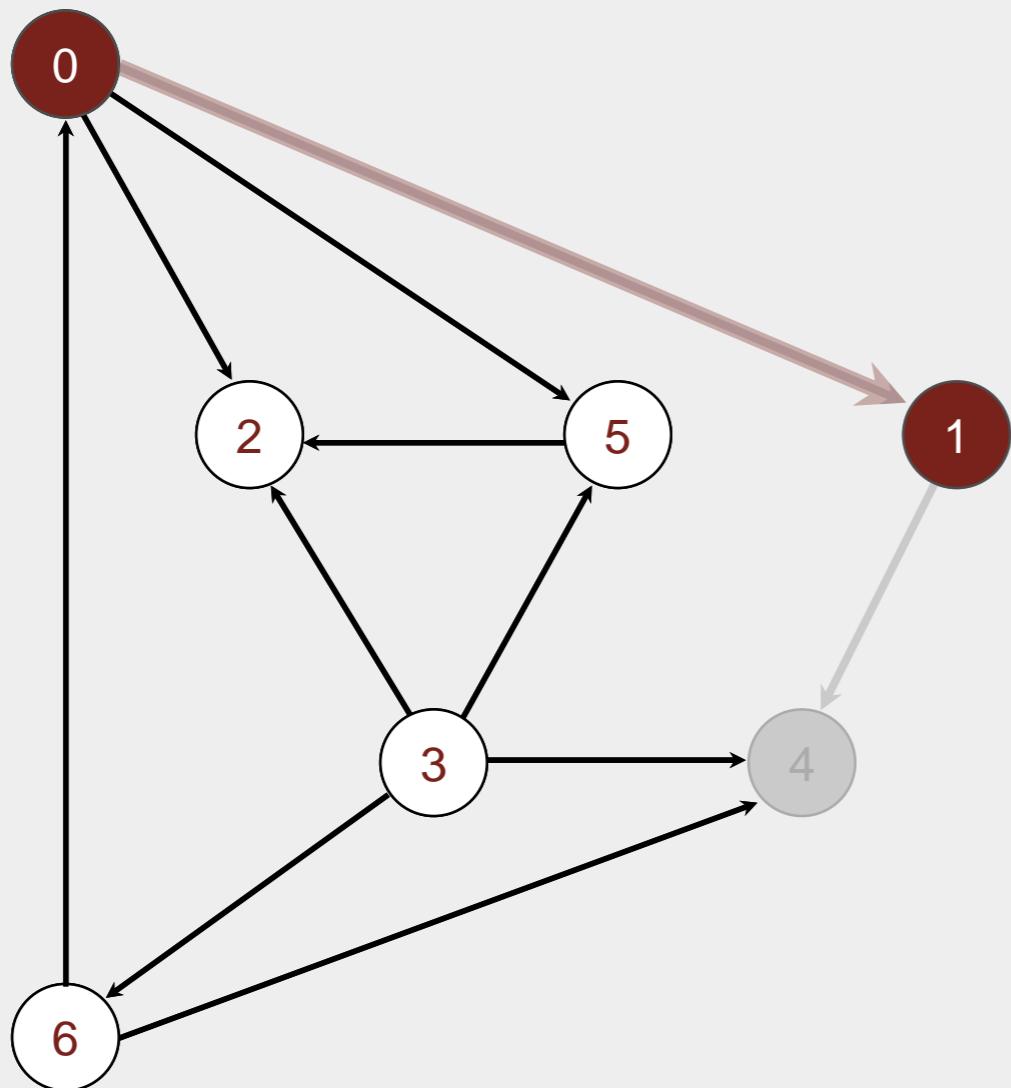
Topological sort algorithm

- Run depth-first search.
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Topological sort algorithm

- Run depth-first search.
- Return vertices in reverse postorder.



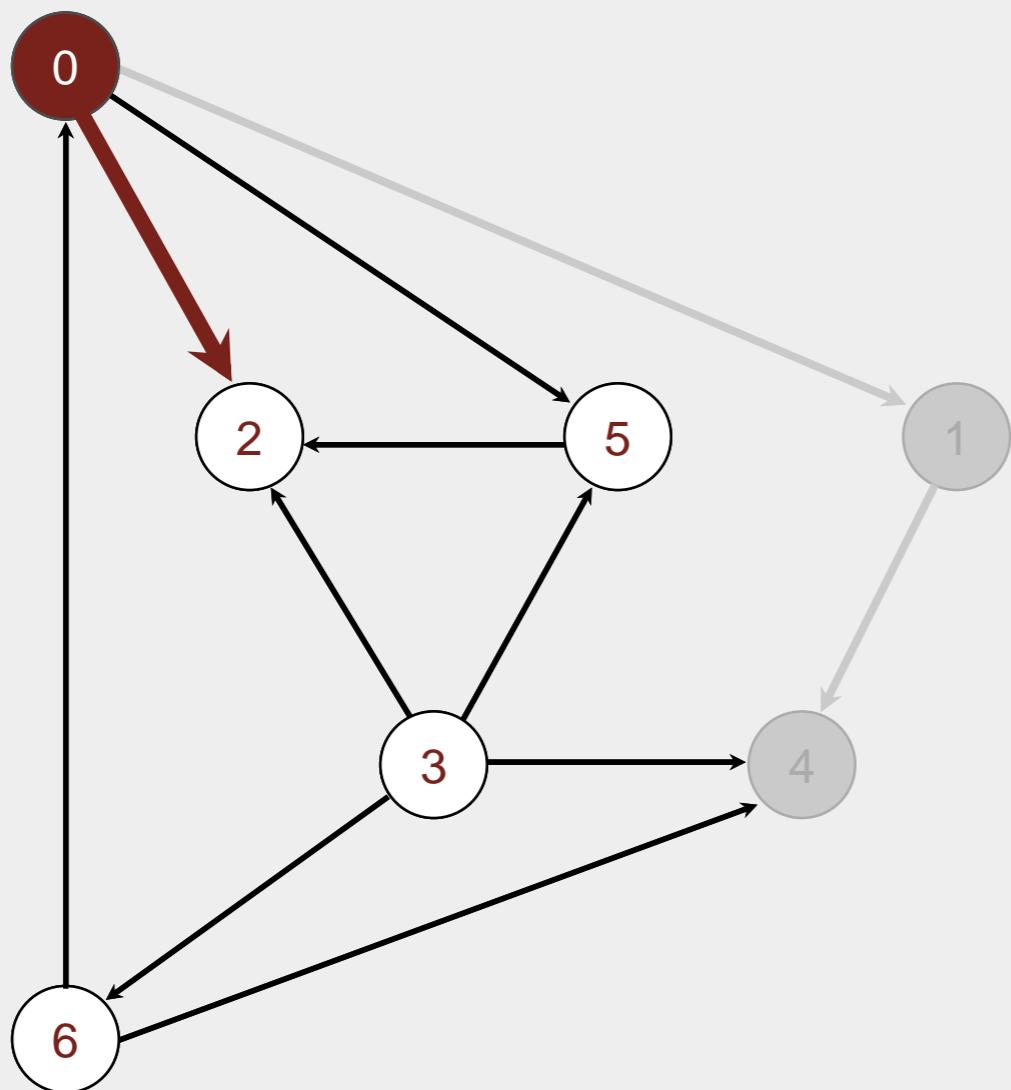
postorder

4 1

1 done

Topological sort algorithm

- Run depth-first search.
- Return vertices in reverse postorder.



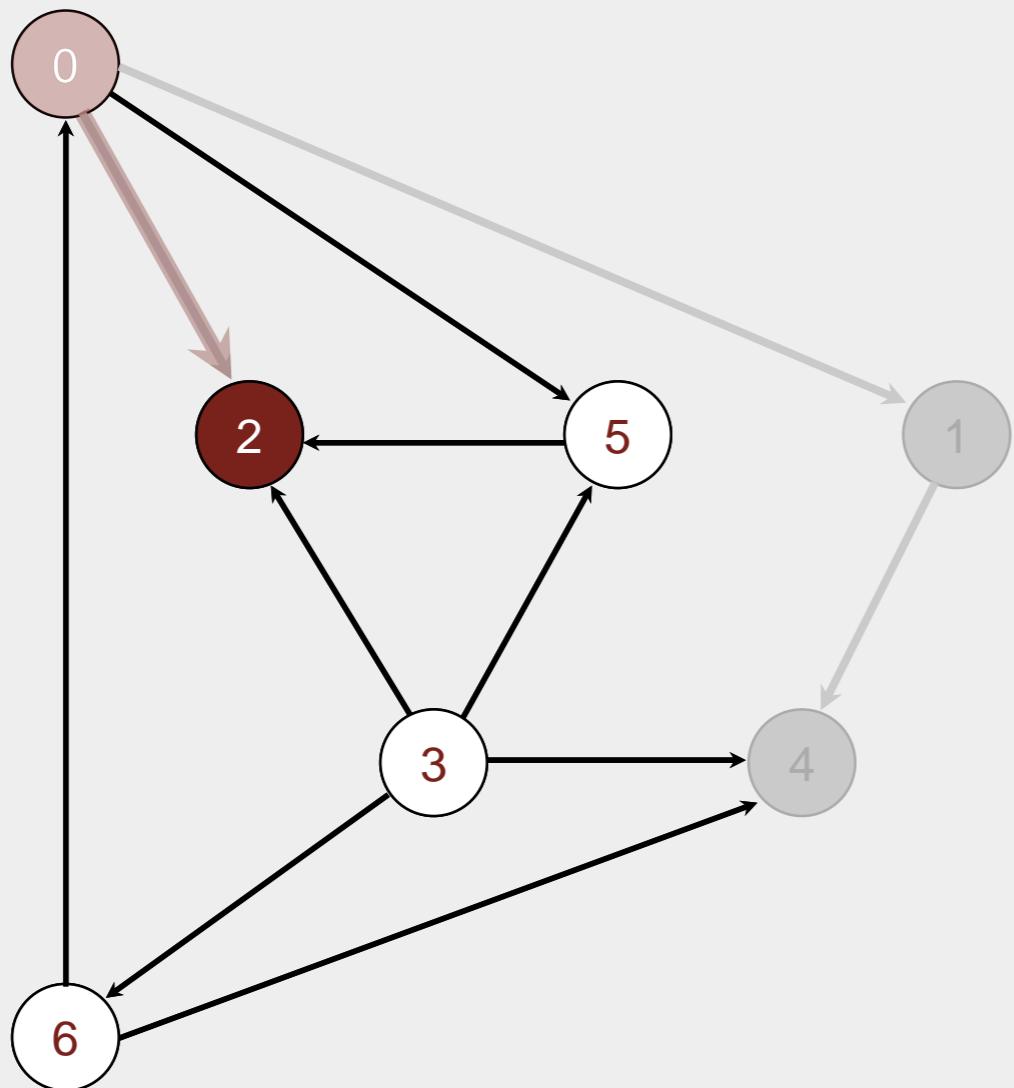
postorder

4 1

visit 0

Topological sort algorithm

- Run depth-first search.
- Return vertices in reverse postorder.



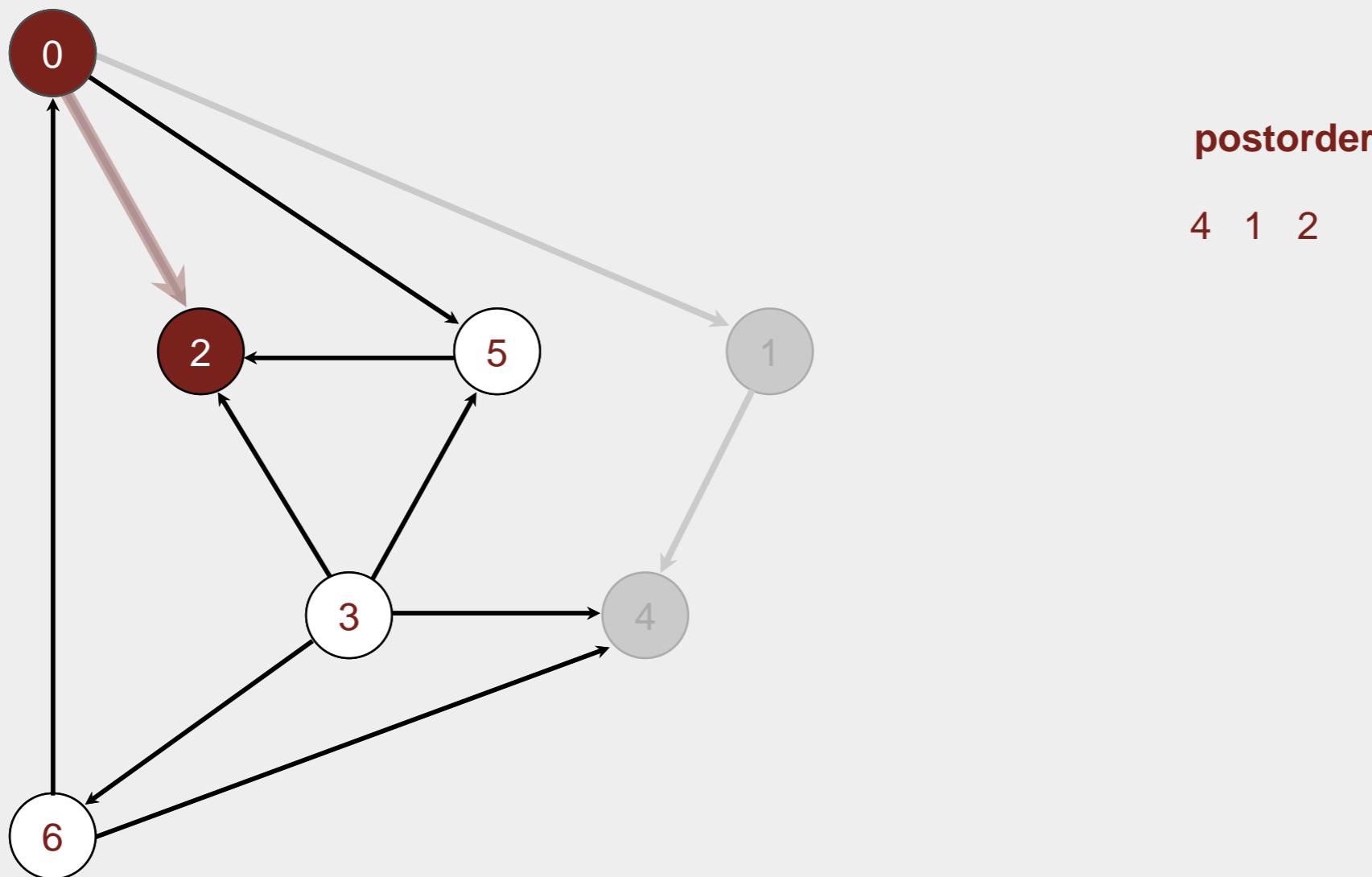
postorder

4 1

visit 2

Topological sort algorithm

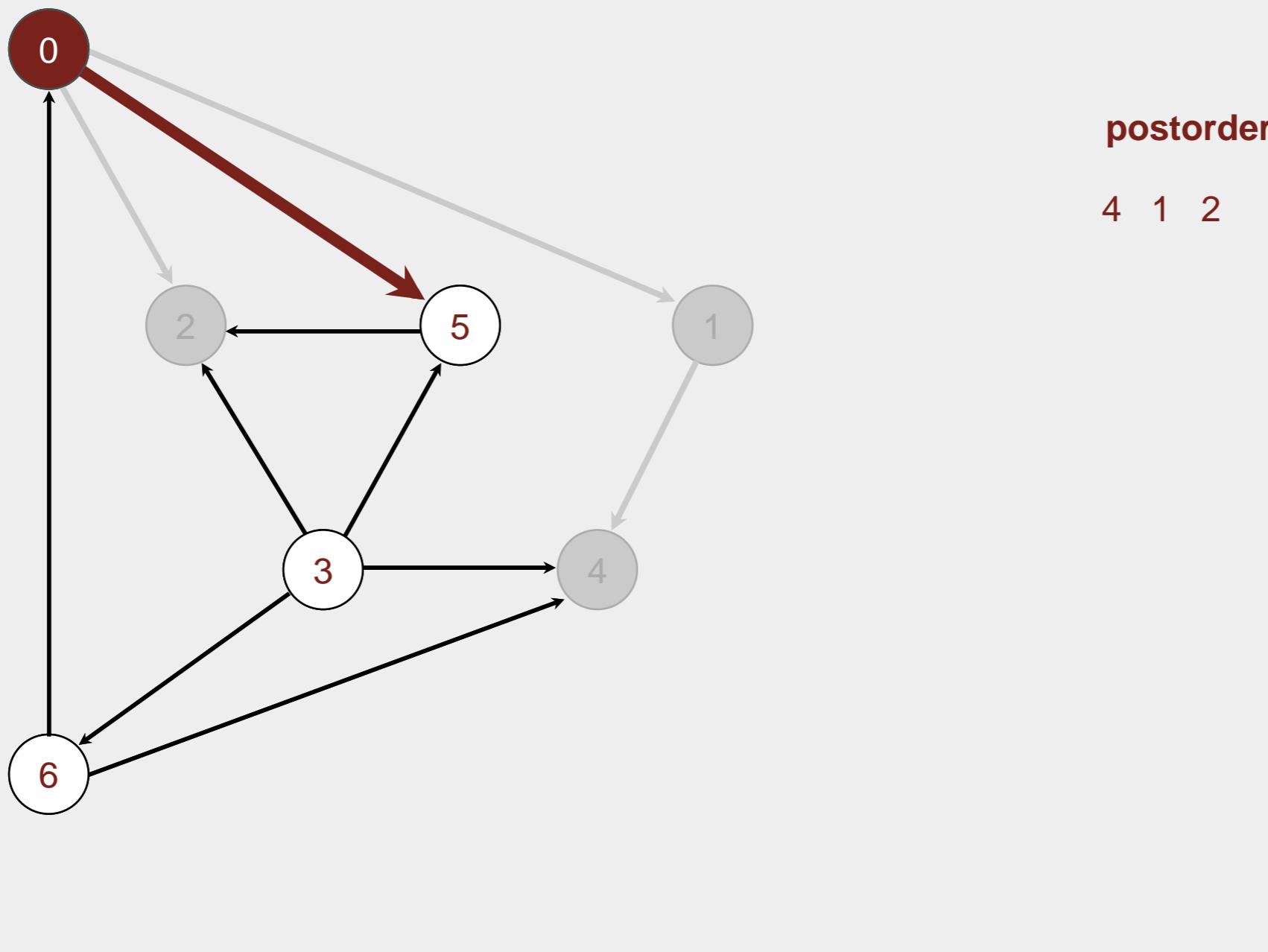
- Run depth-first search.
- Return vertices in reverse postorder.



2 done

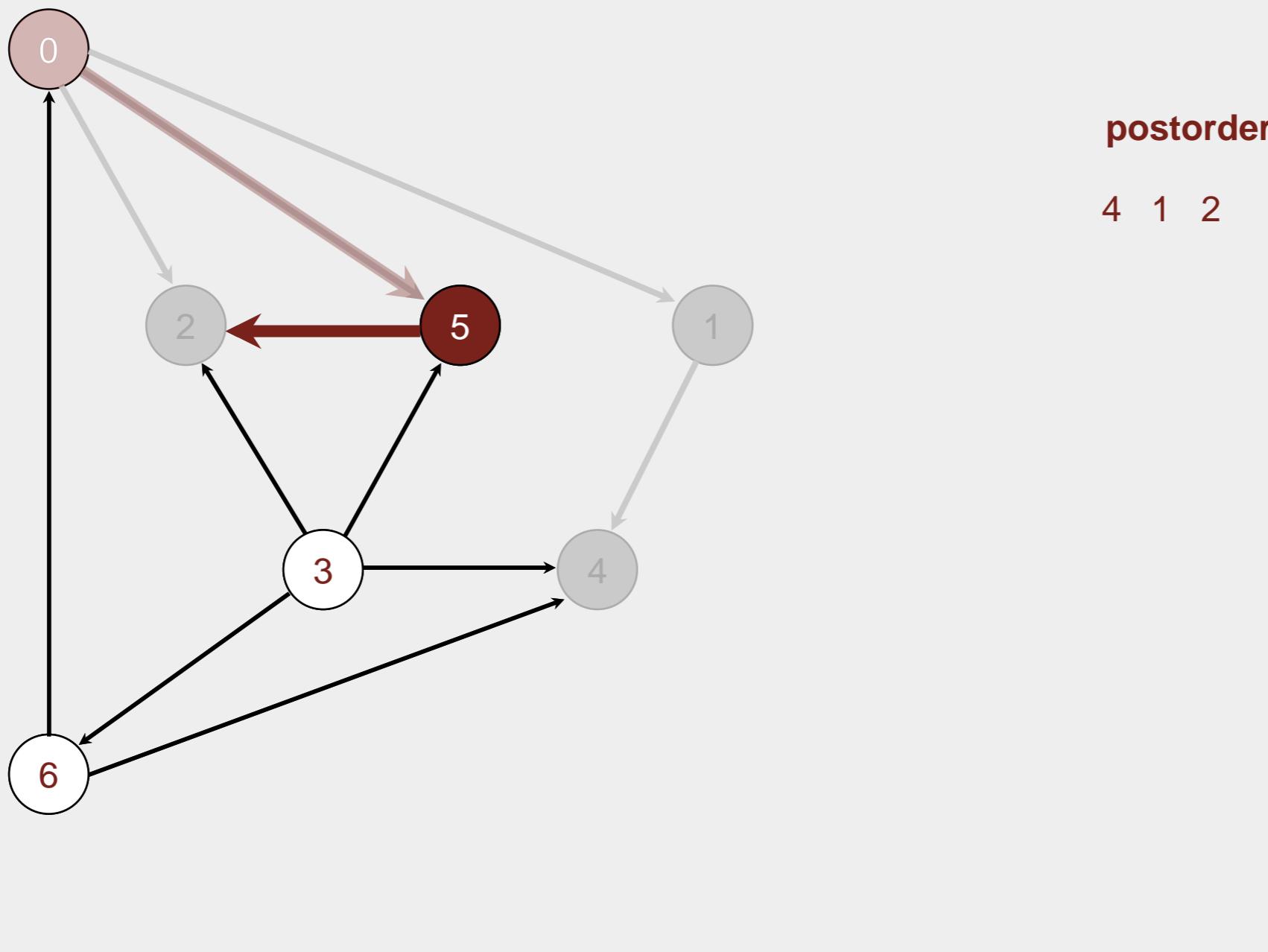
Topological sort algorithm

- Run depth-first search.
- Return vertices in reverse postorder.



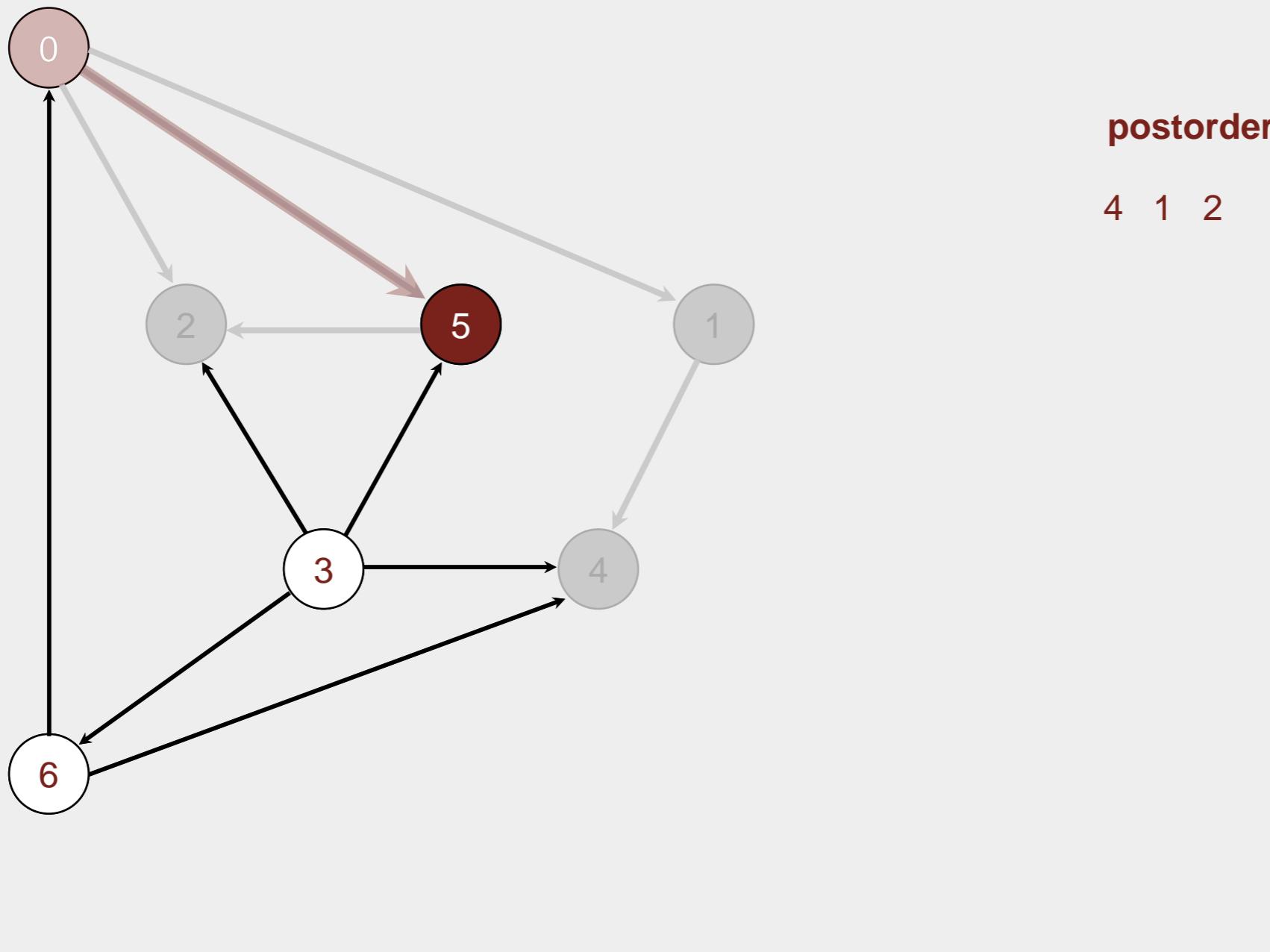
Topological sort algorithm

- Run depth-first search.
- Return vertices in reverse postorder.



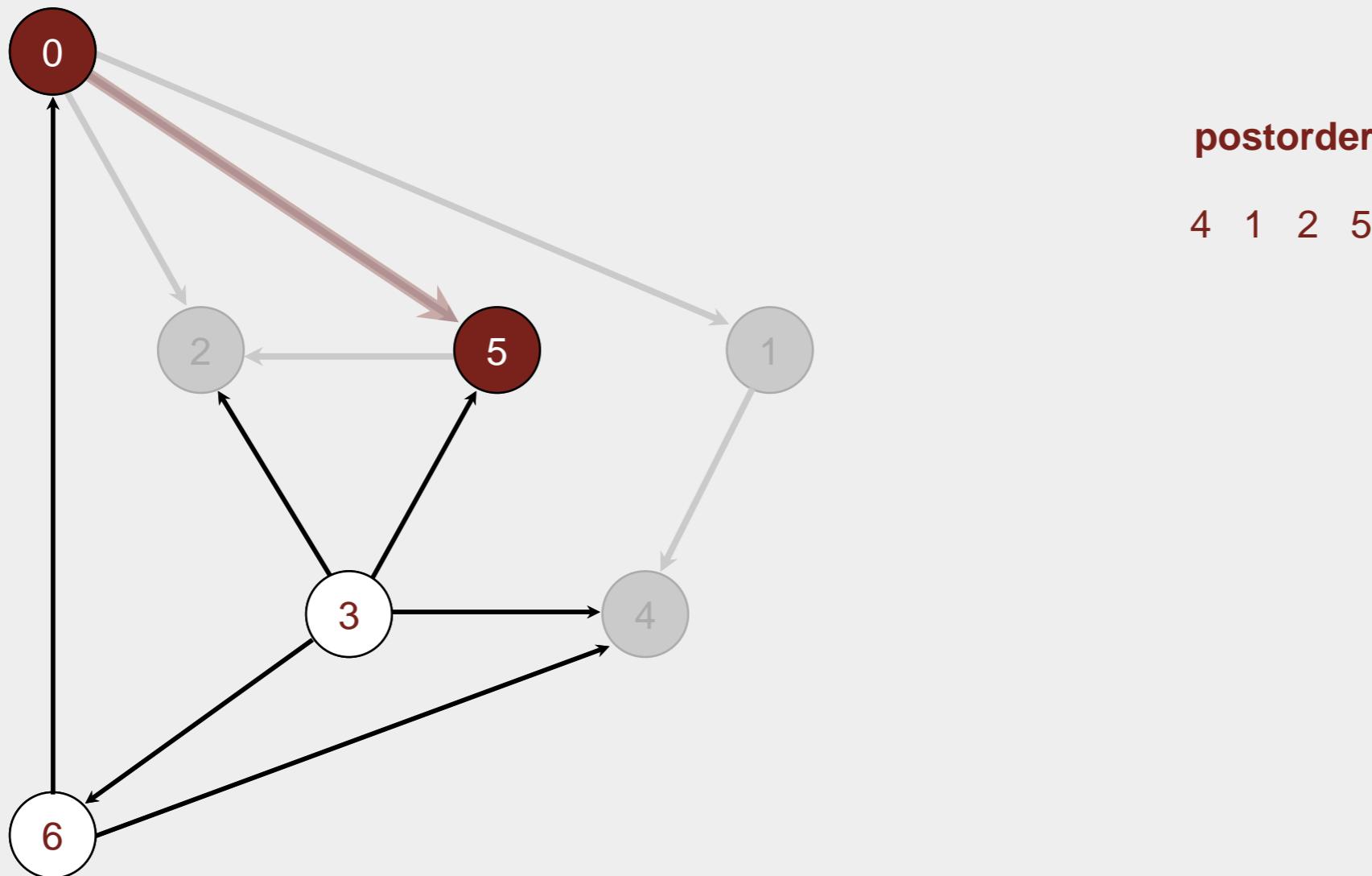
Topological sort algorithm

- Run depth-first search.
- Return vertices in reverse postorder.



Topological sort algorithm

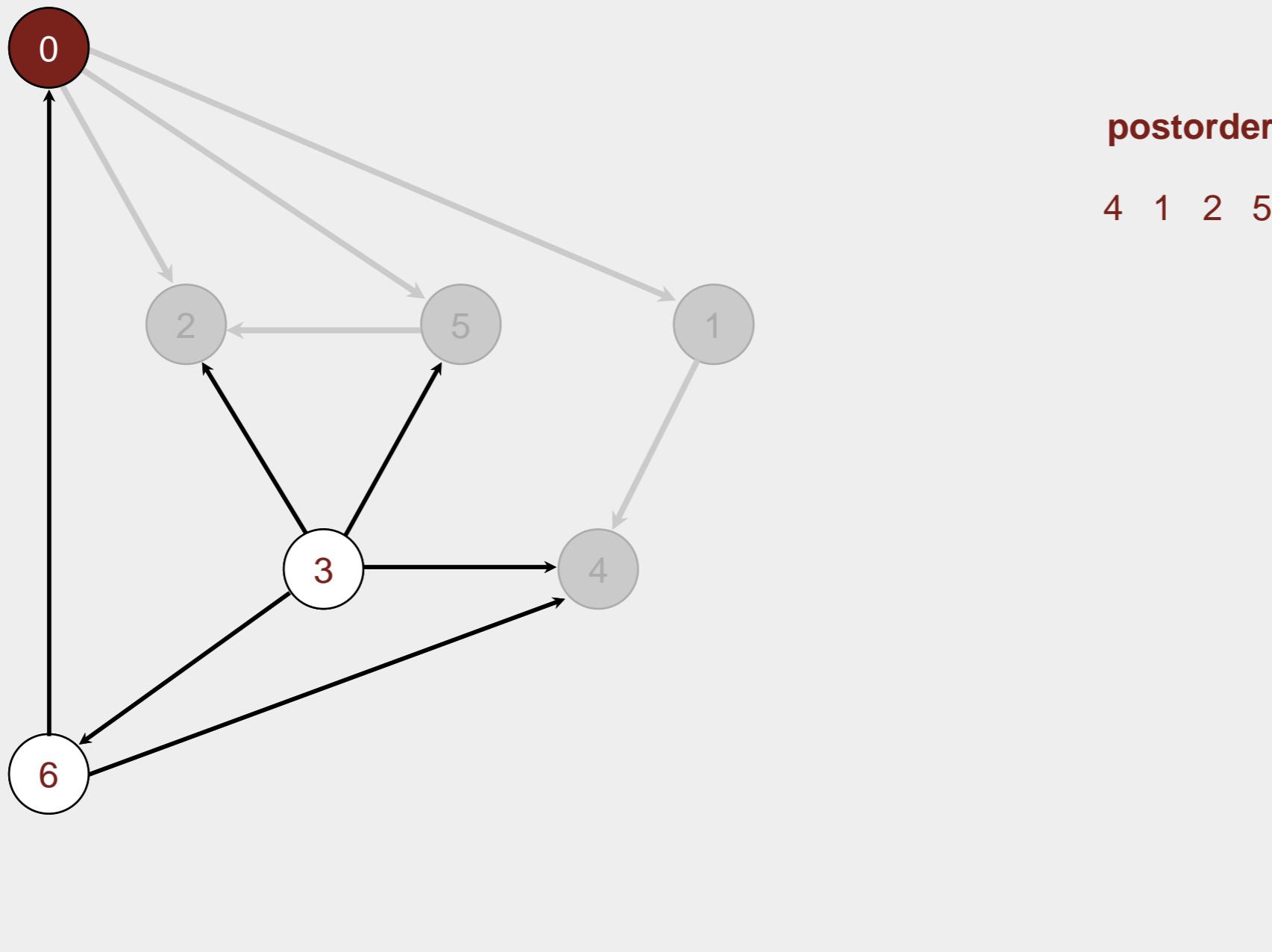
- Run depth-first search.
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5 done

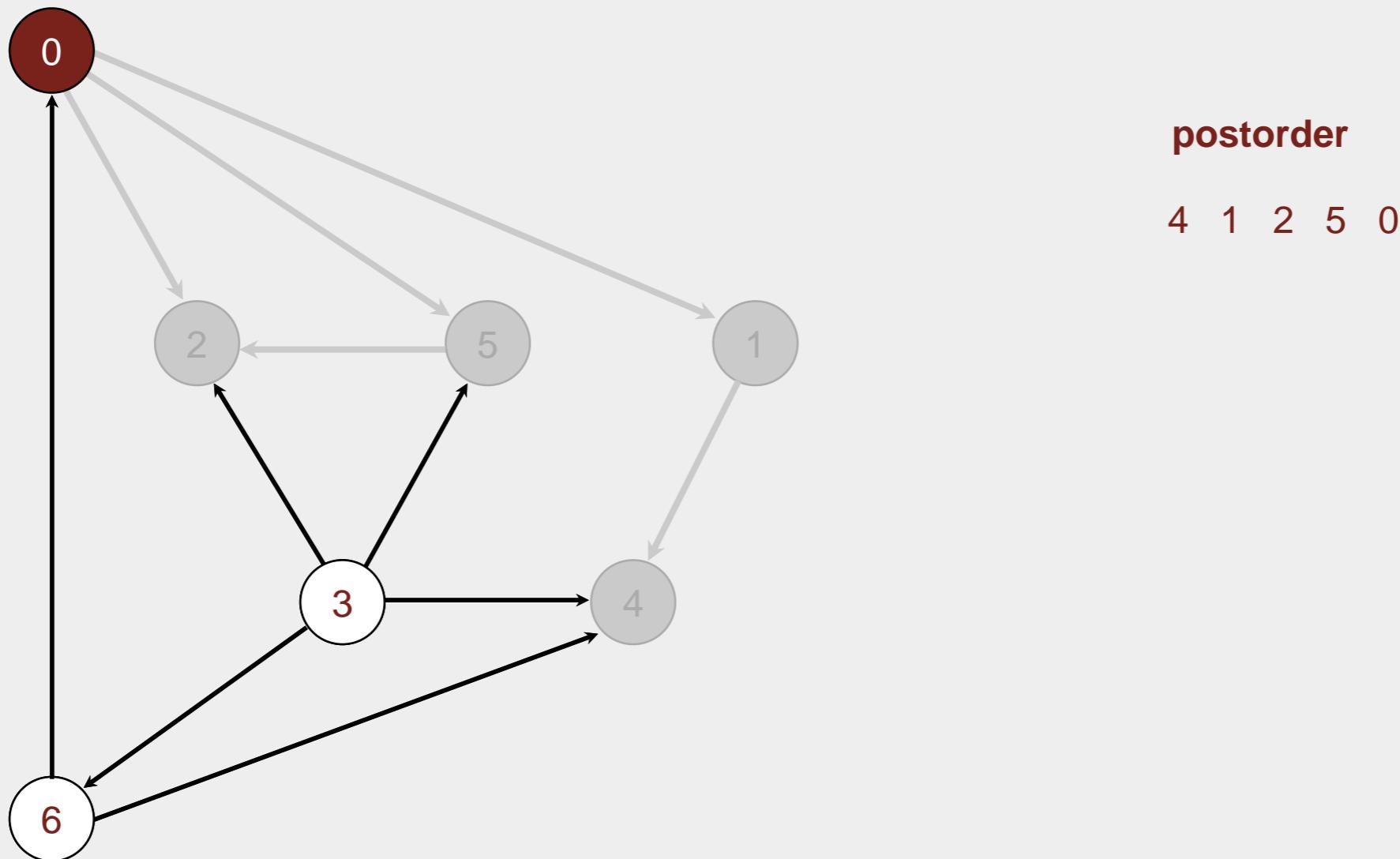
Topological sort algorithm

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Topological sort algorithm

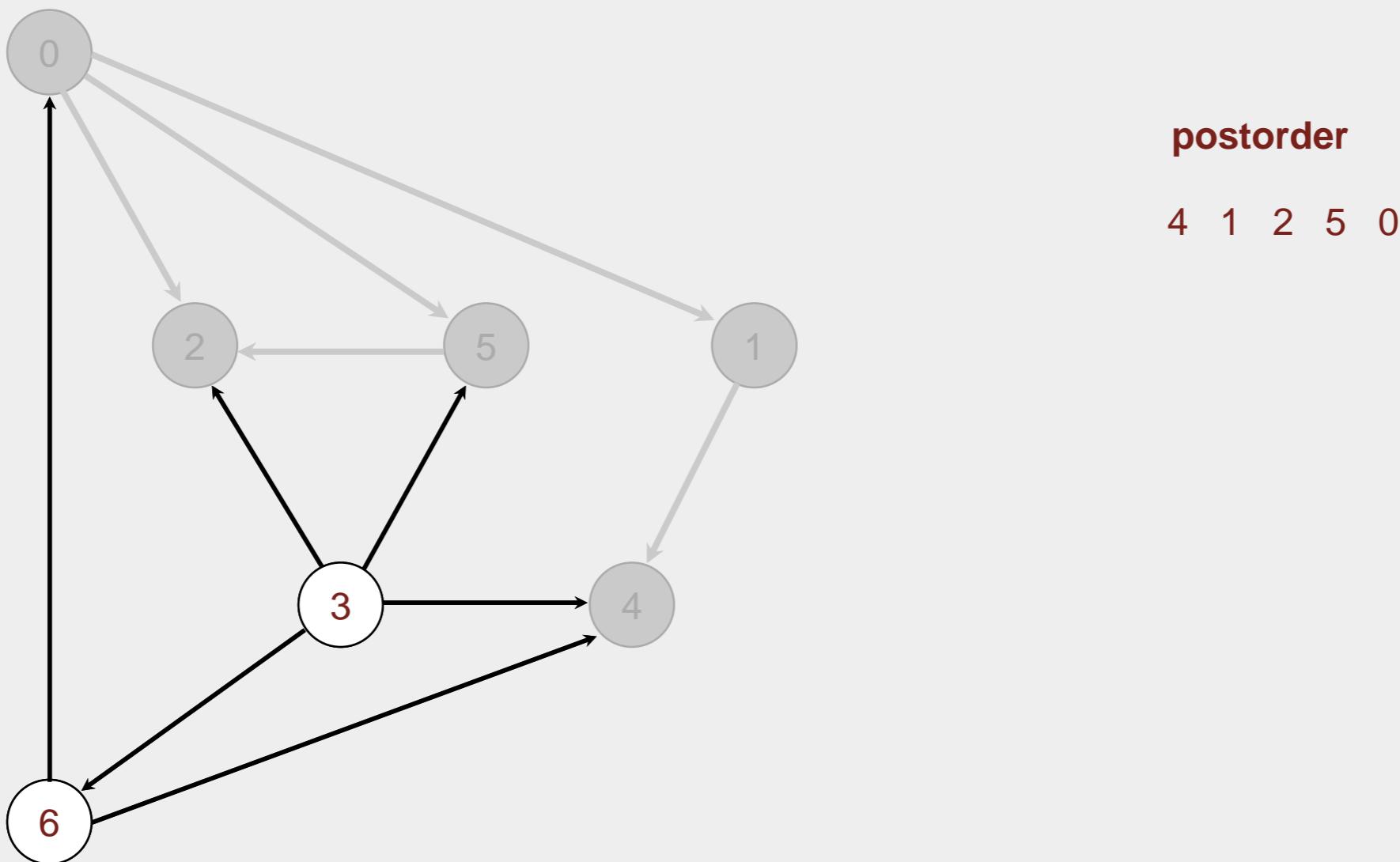
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0 done

Topological sort algorithm

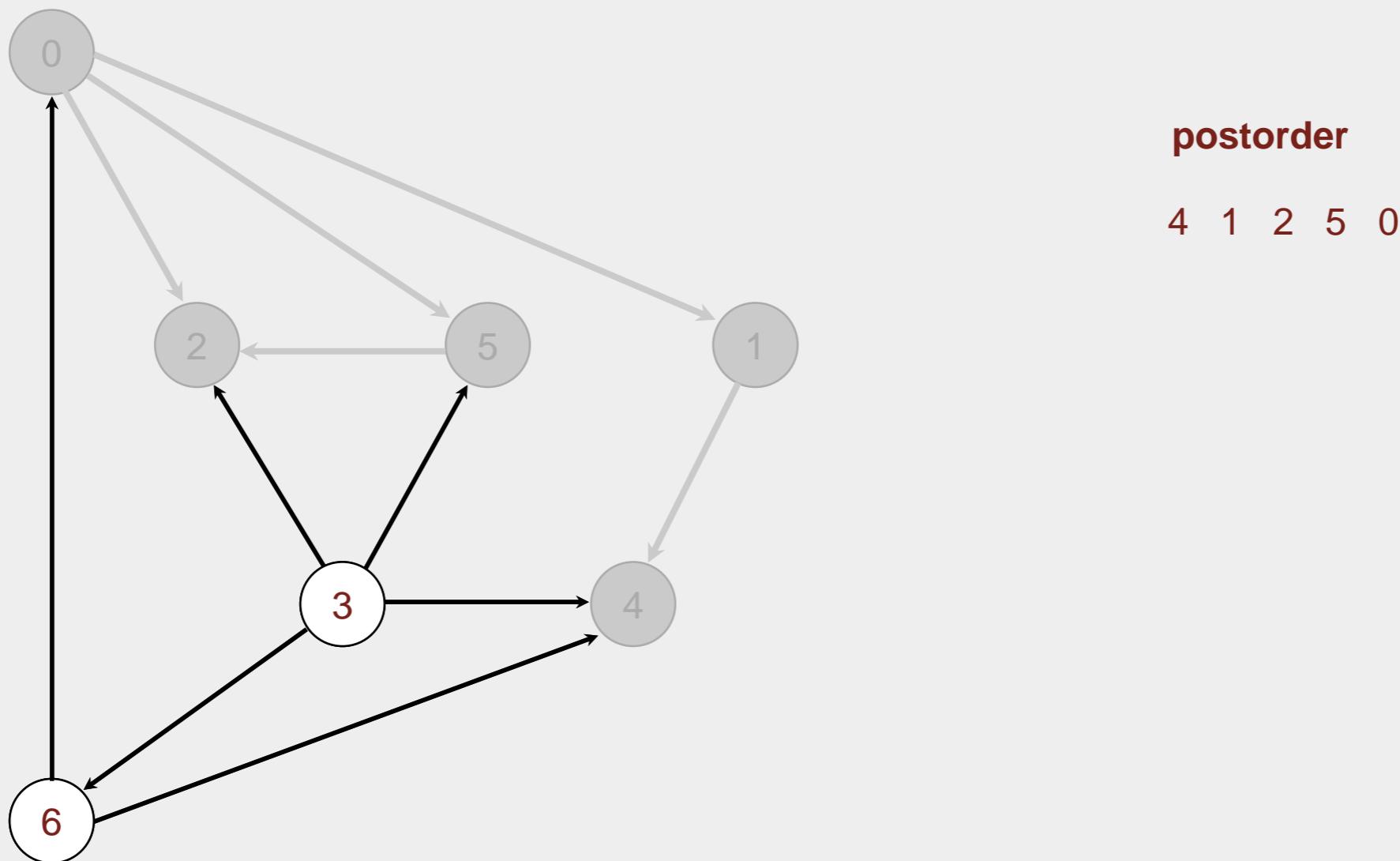
- Run depth-first search.
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check 1

Topological sort algorithm

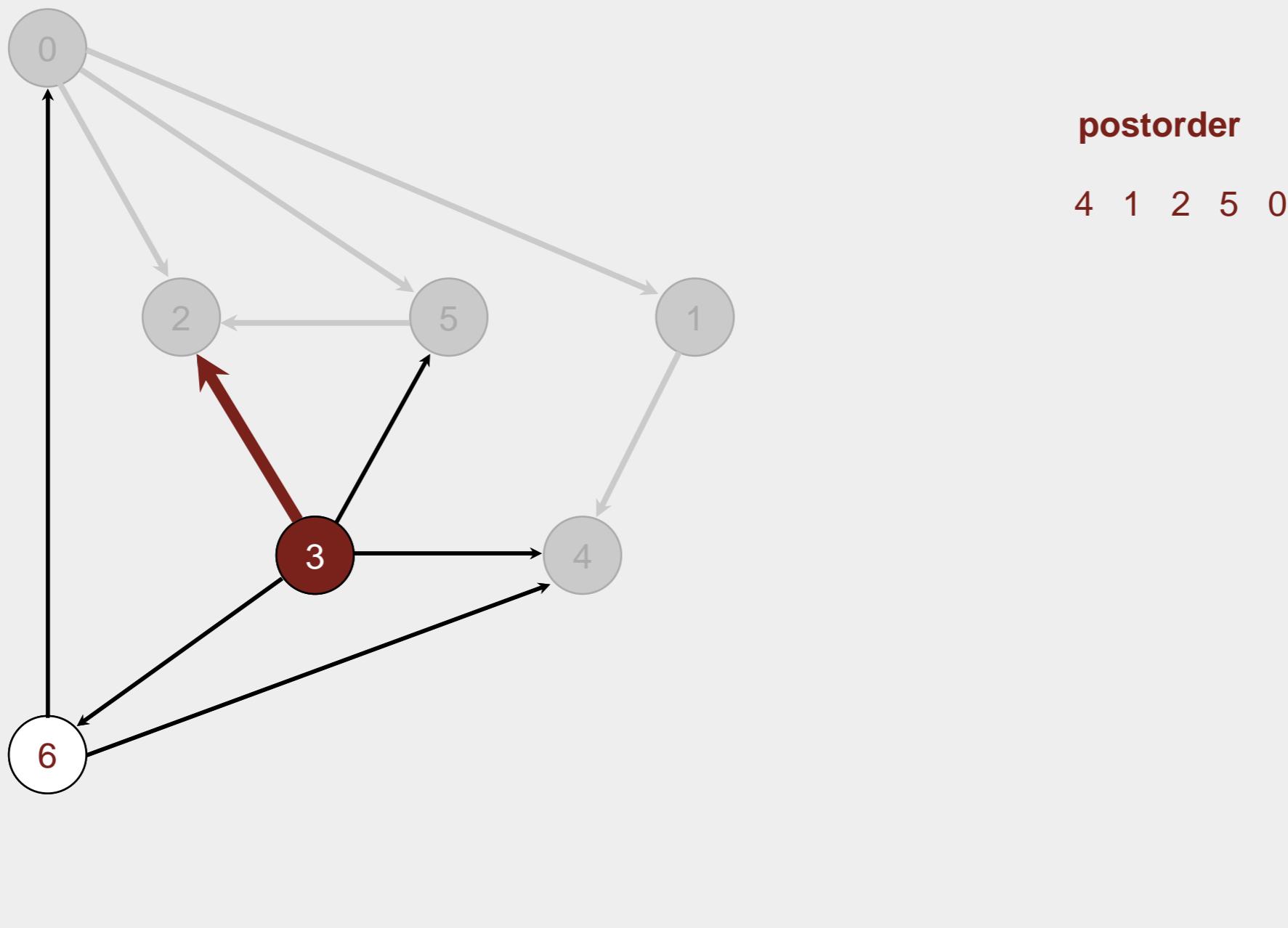
- Run depth-first search.
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check 2

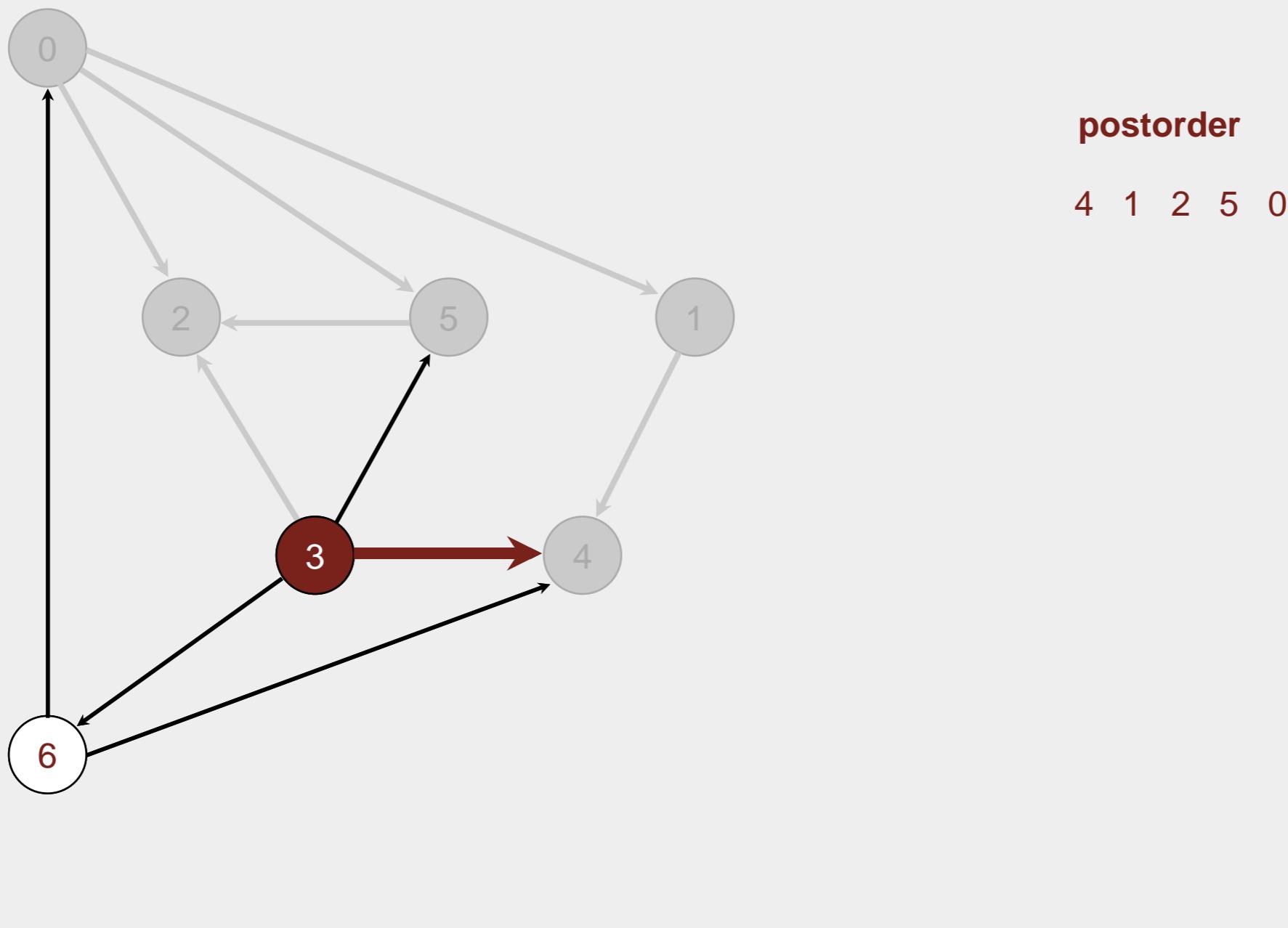
Topological sort algorithm

- Run depth-first search.
- Return vertices in reverse postorder.



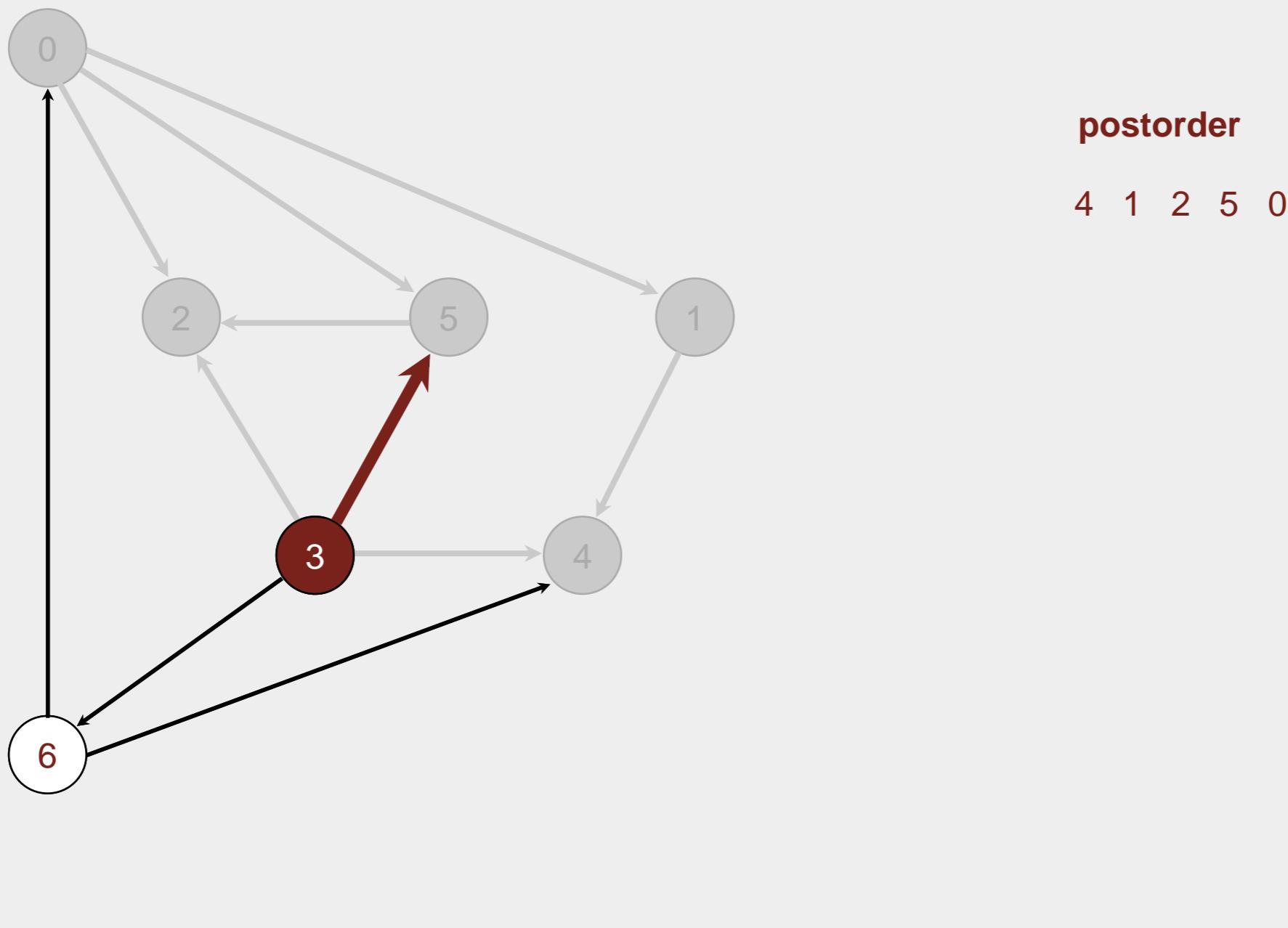
Topological sort algorithm

- Run depth-first search.
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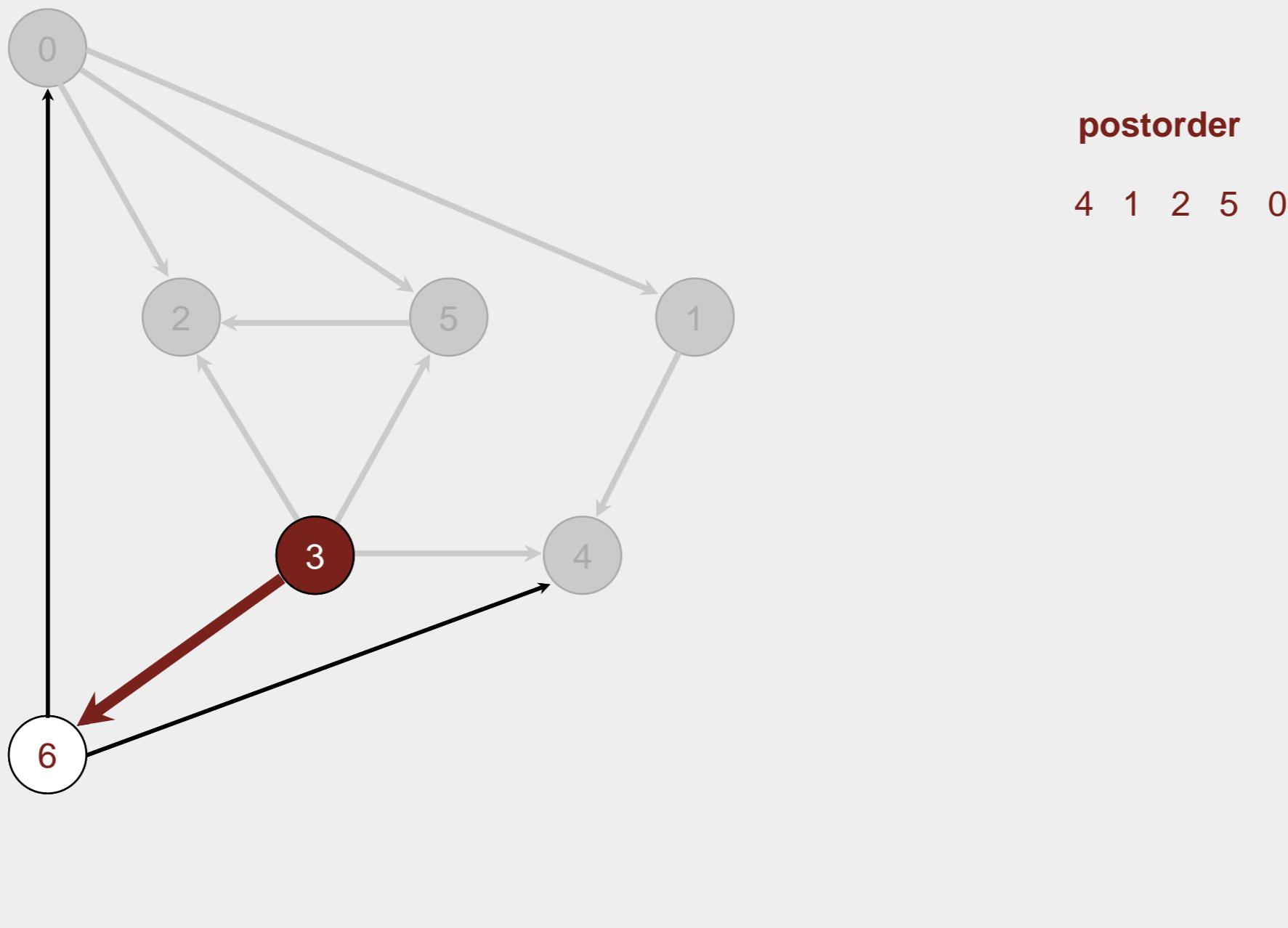
Topological sort algorithm

- Run depth-first search.
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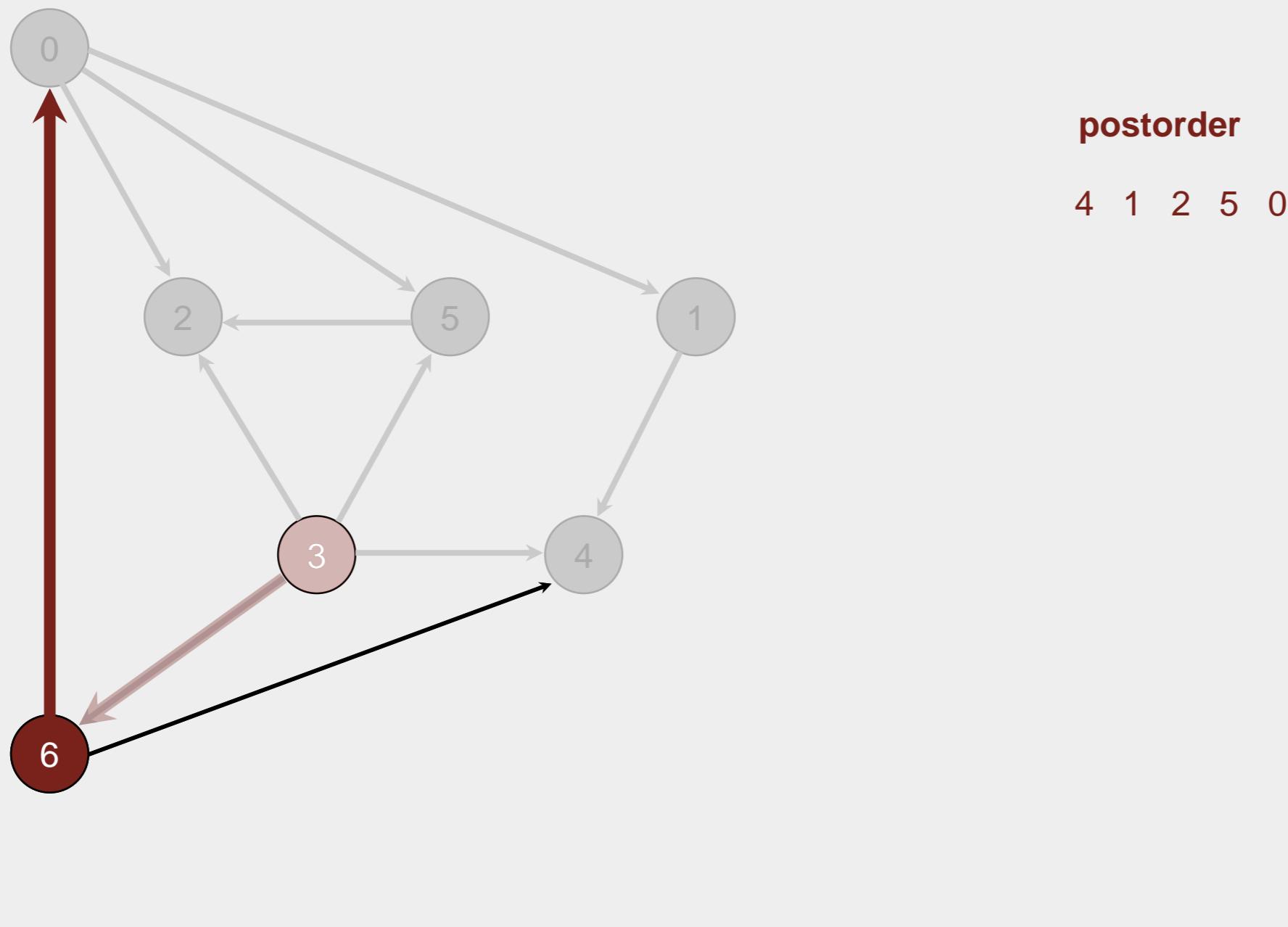
Topological sort algorithm

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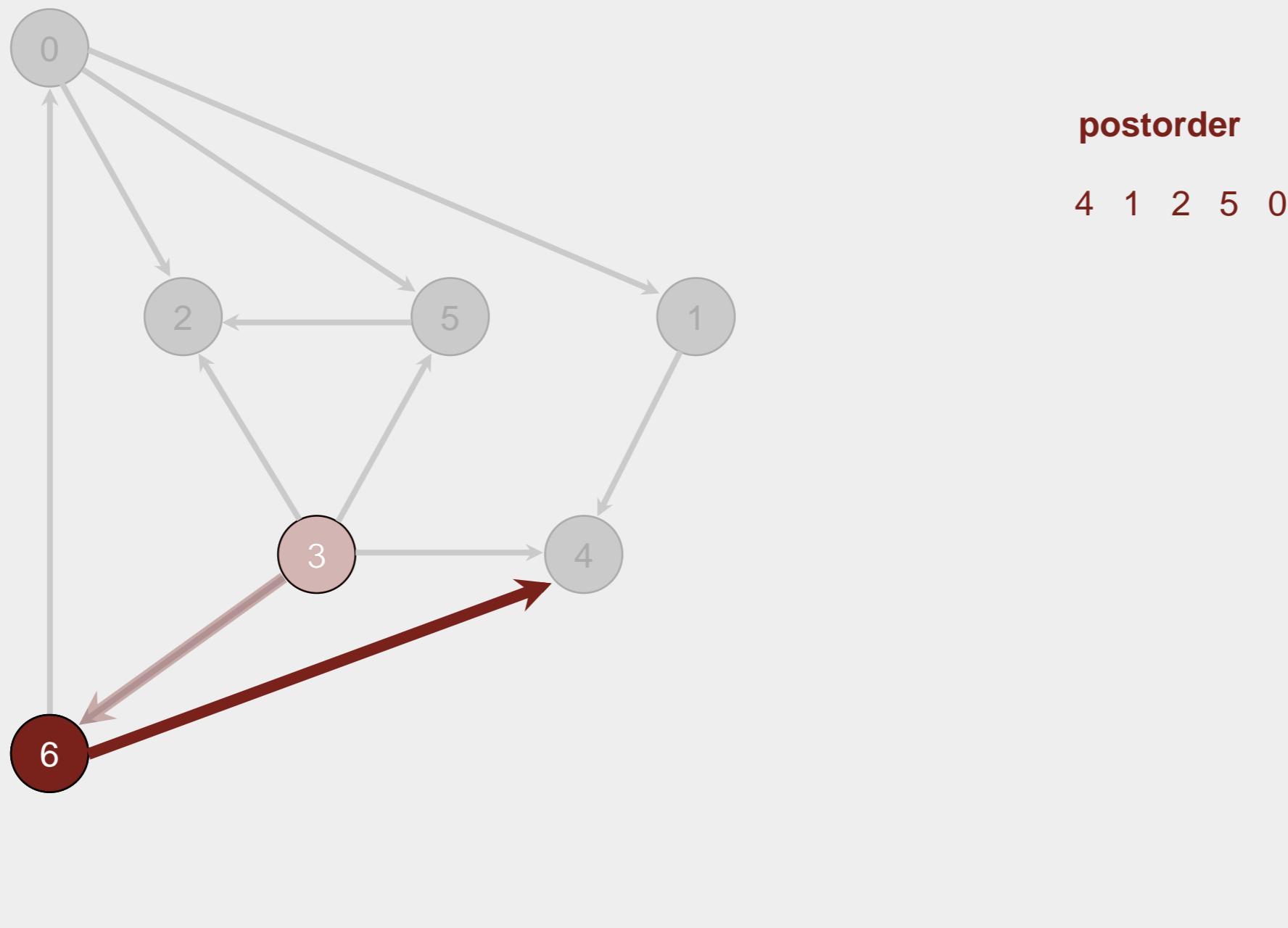
Topological sort algorithm

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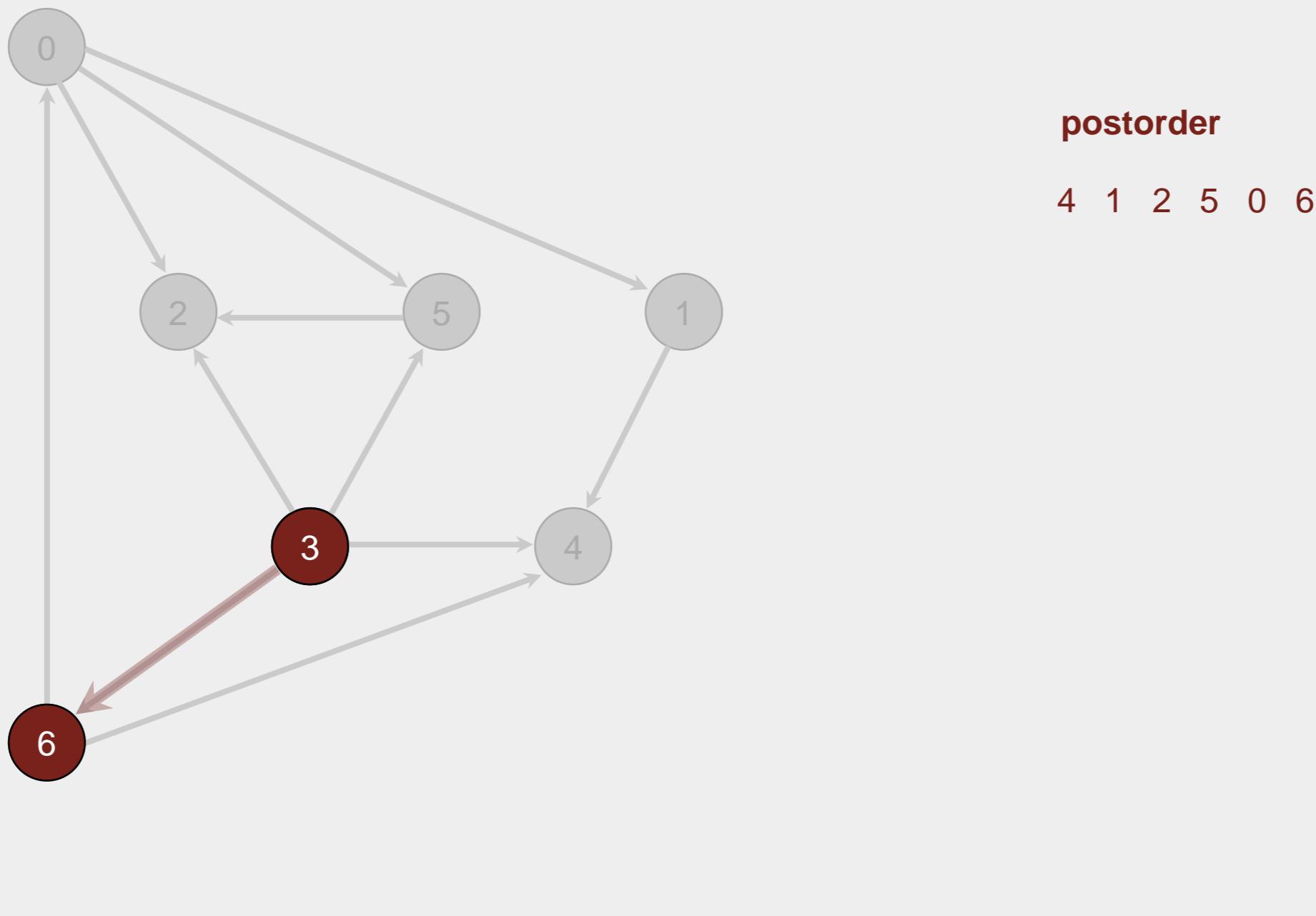
Topological sort algorithm

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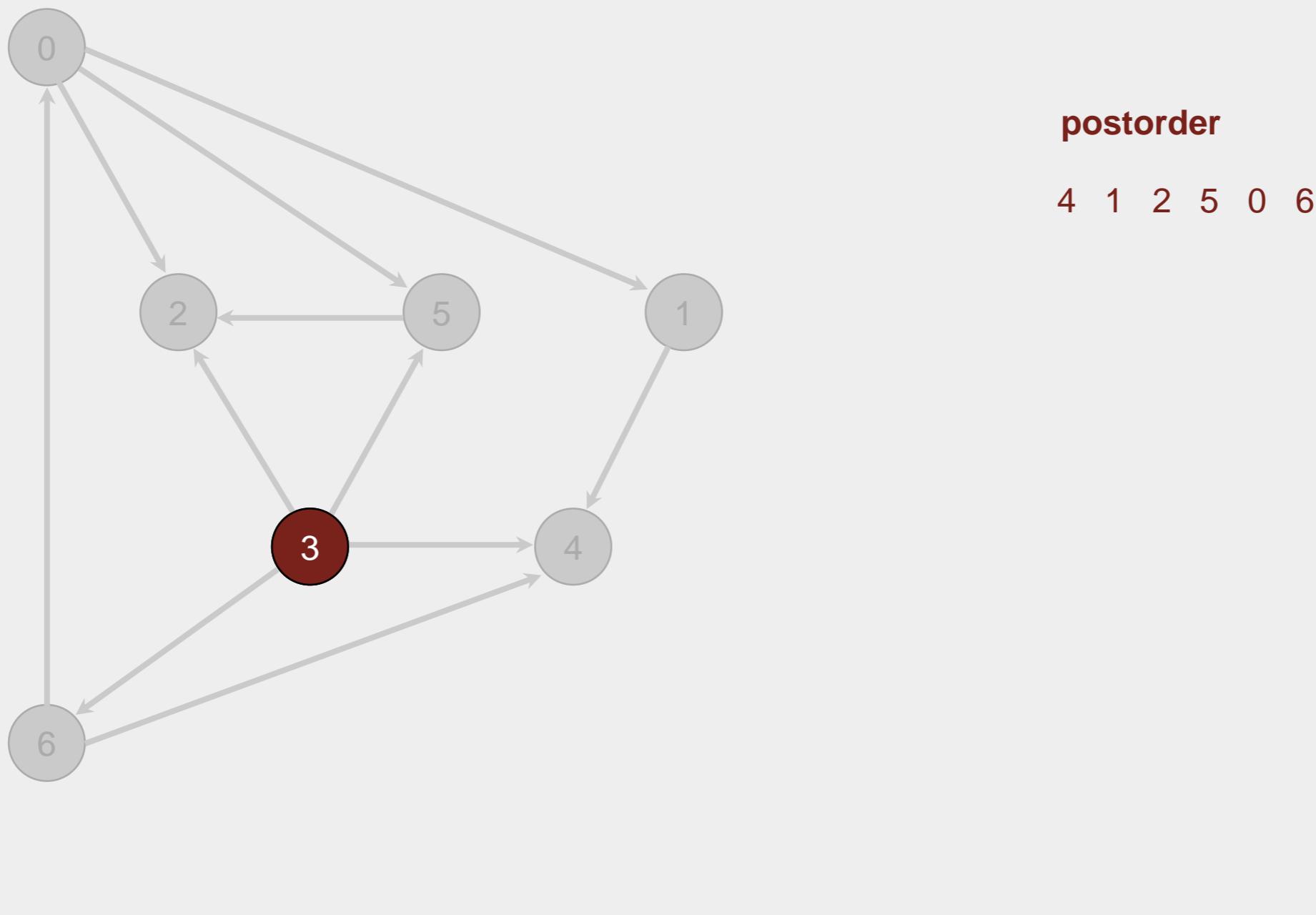
Topological sort algorithm

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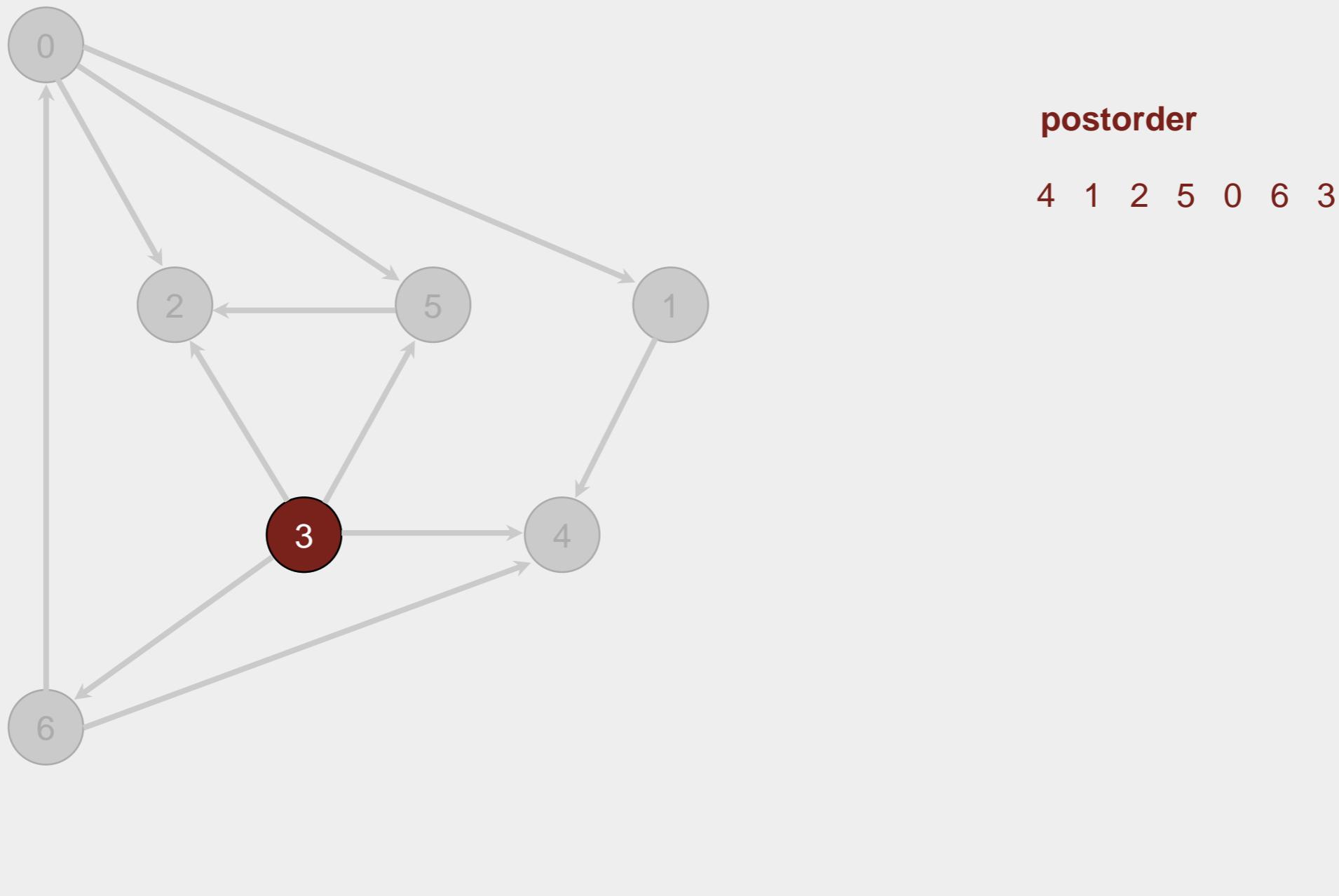
Topological sort algorithm

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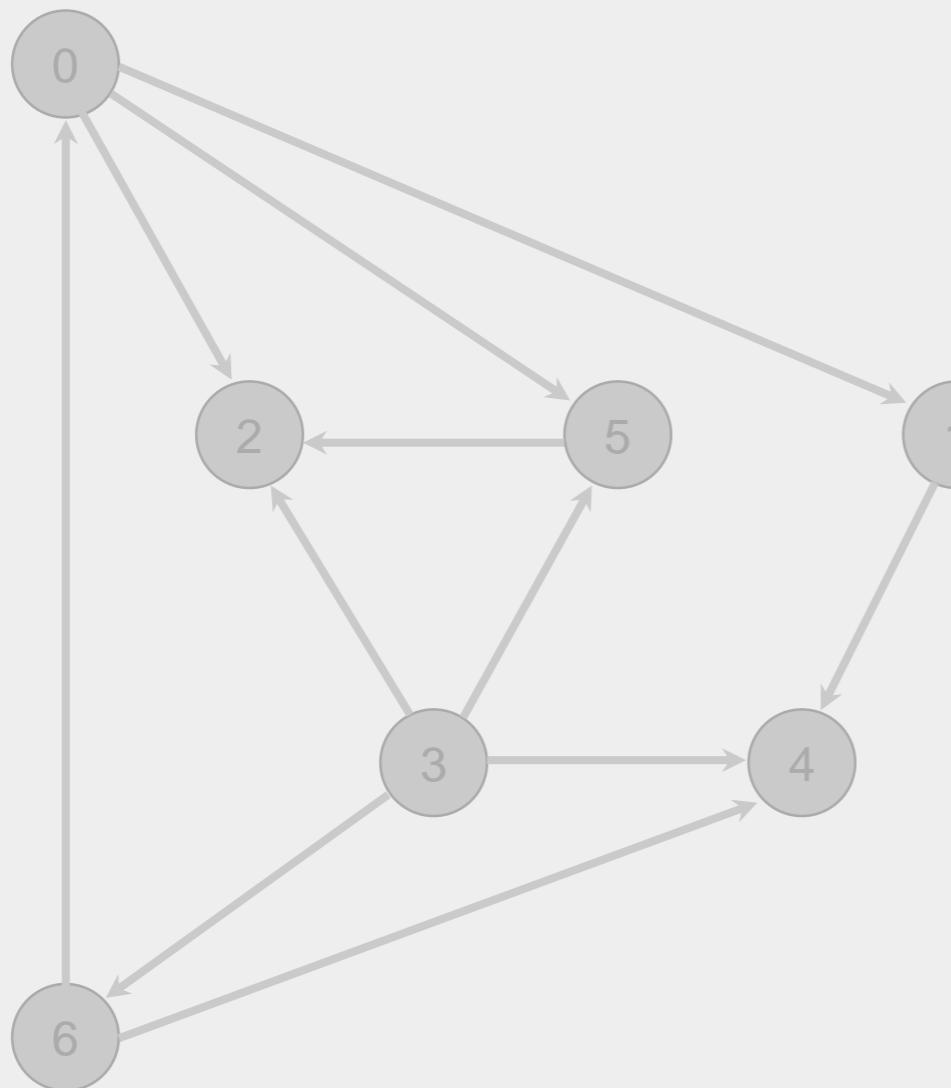
Topological sort algorithm

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Topological sort algorithm

- Run depth-first search.
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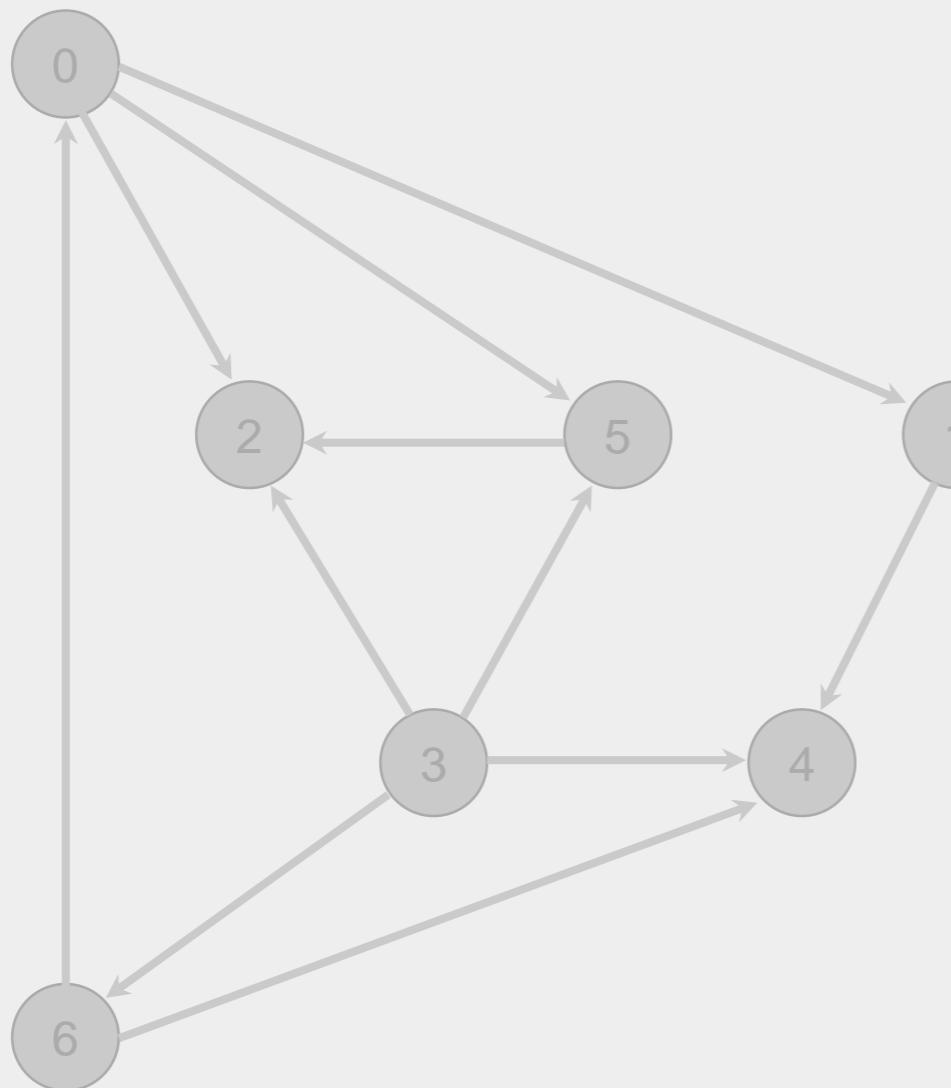
postorder

4 1 2 5 0 6 3

check 4

Topological sort algorithm

- Run depth-first search.
- Return vertices in reverse postorder.



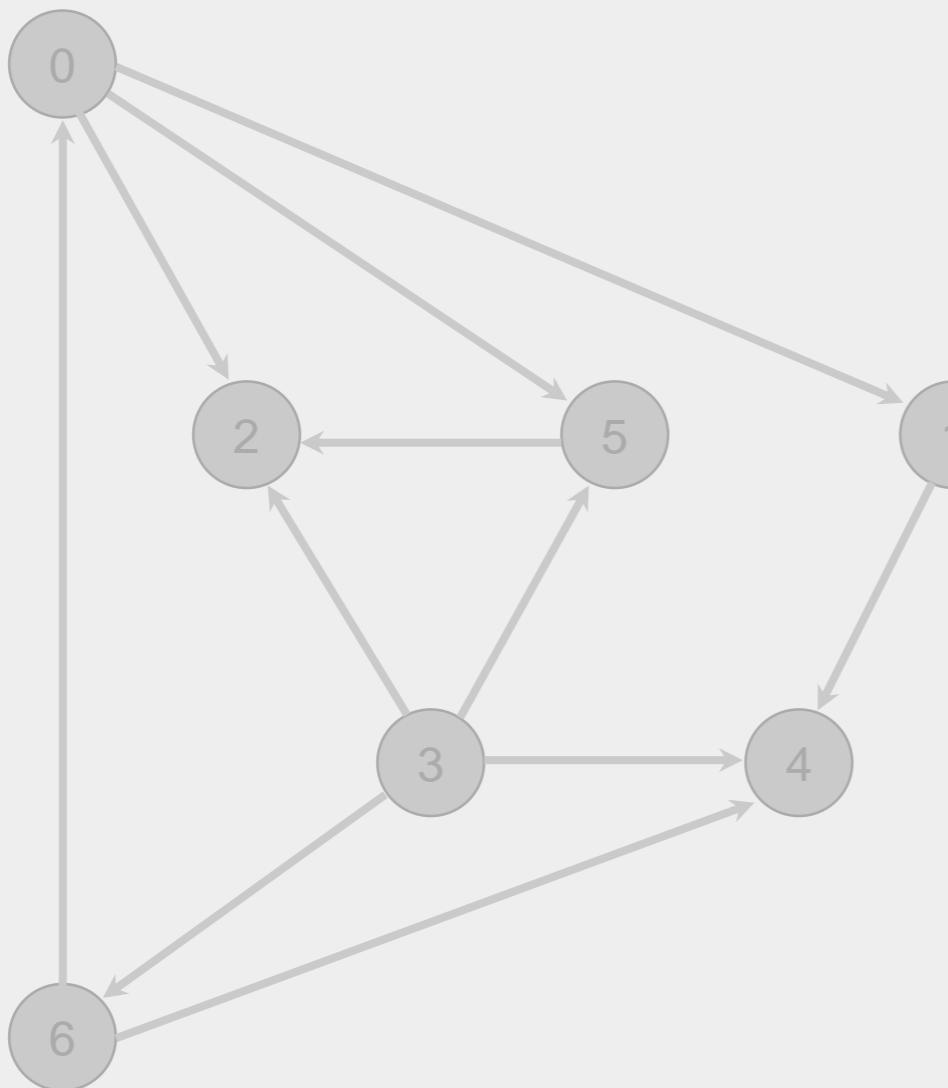
postorder

4 1 2 5 0 6 3

check 5

Topological sort algorithm

- Run depth-first search.
- Return vertices in reverse postorder.



postorder

4 1 2 5 0 6 3

check 6

Topological sort algorithm

- Run depth-first search.
- Return vertices in reverse postorder.

