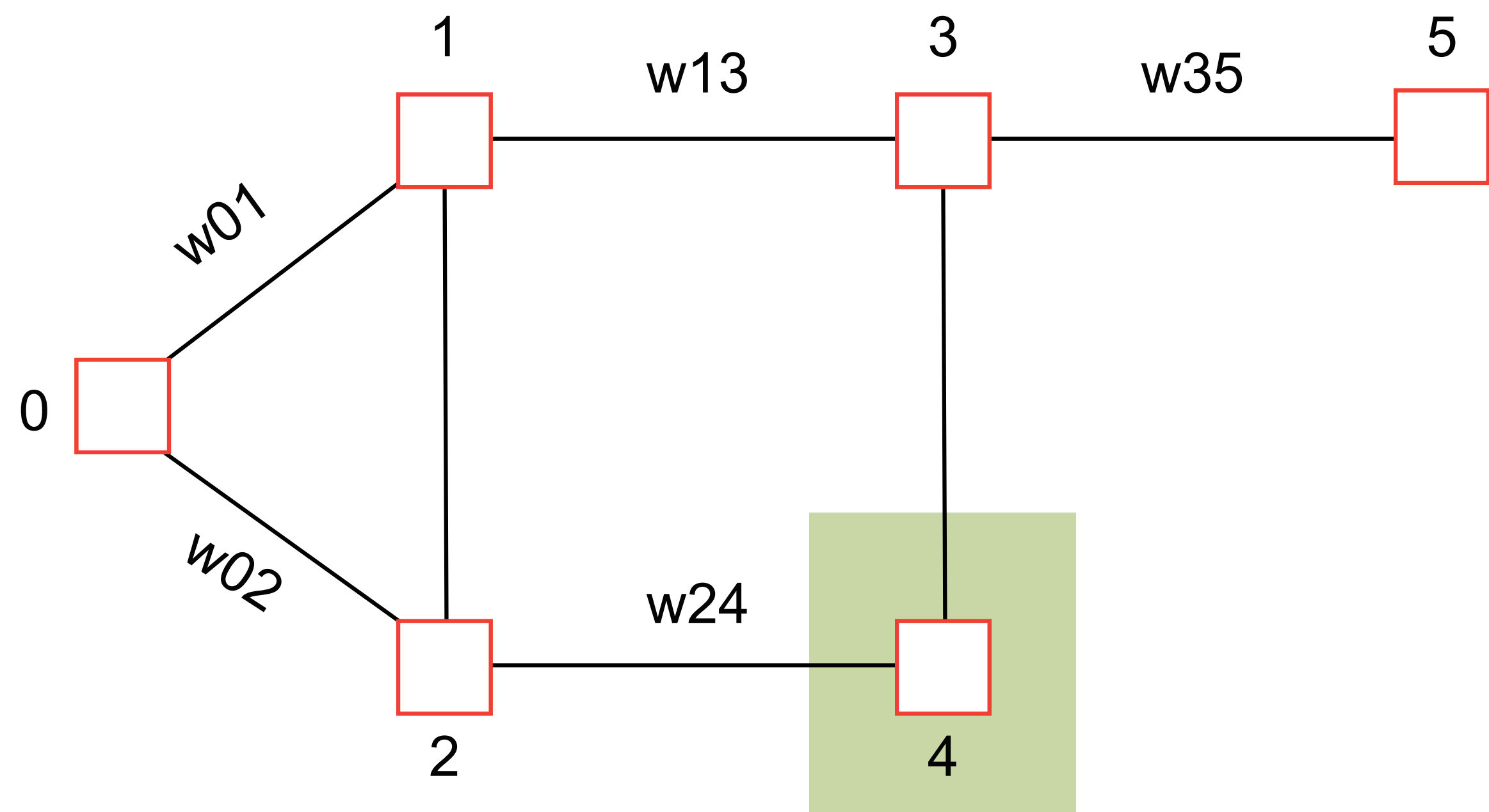


**Size:** the number of vertices  
and edges in the graph  $G$  |  $\dim(\mathcal{V}) = 6$   
 $\dim(\mathcal{E}) = 7$

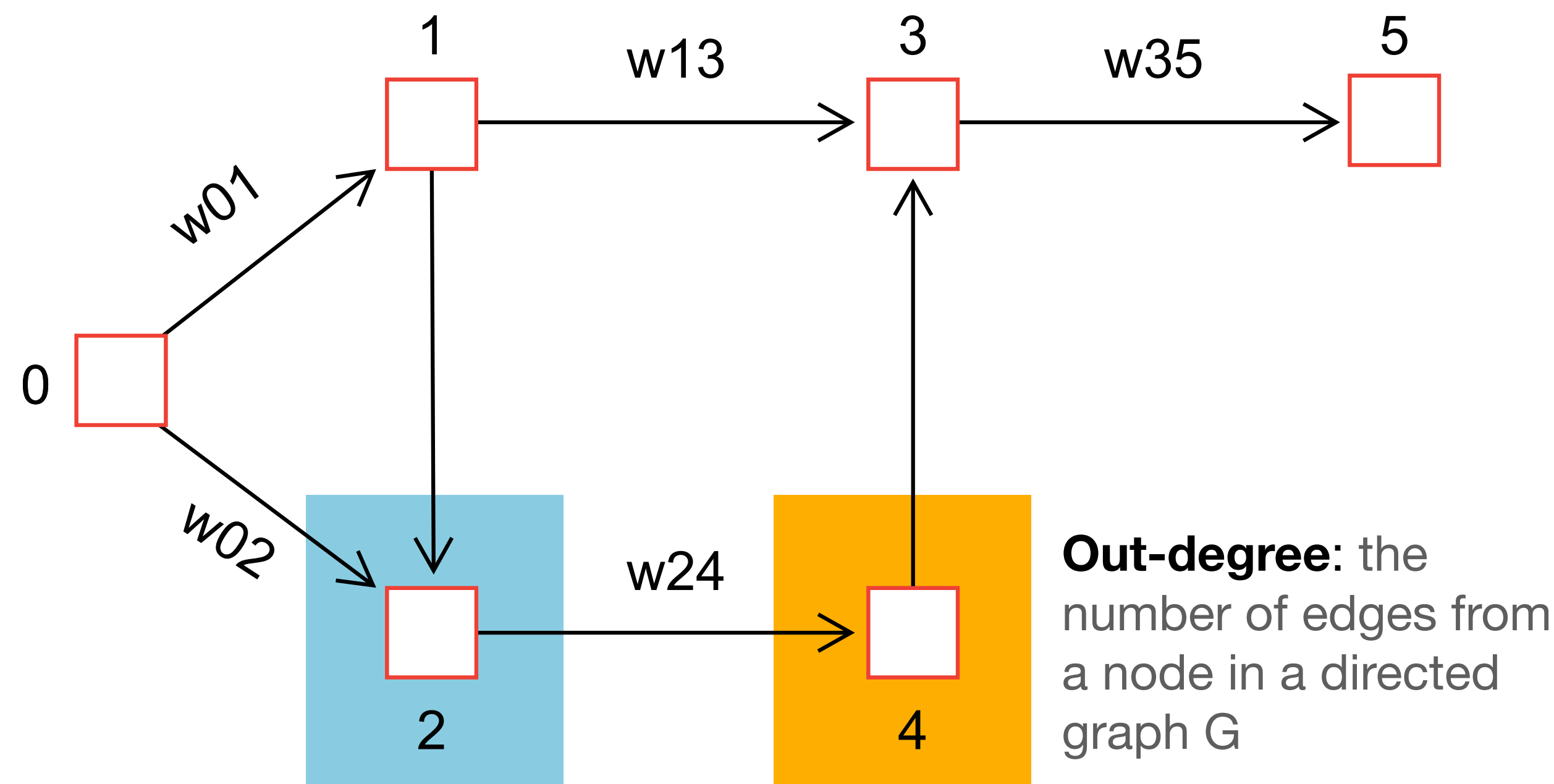
Undirected Graph



**Degree:** the number of edges associated  
with a node in an undirected graph  $G$

$\deg(v_4) = 2$

Directed Acyclic Graph



**Out-degree:** the  
number of edges from  
a node in a directed  
graph  $G$

$\text{outdeg}(v_4) = 1$

**In-degree:** the number of edges into a  
node in a directed graph  $G$

$\text{indeg}(v_2) = 2$