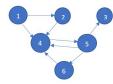
Congratulations! You passed!

Latest Submission Grade 100% Grade received 100%

To pass 80% or higher





- $\begin{tabular}{ll} \hline & The adjacency list for node 2 has a single entry $[1]$ representing the incoming edge $1 \to 2$.} \end{tabular}$

Ocrrect Correct.

○ Correct
 Correct since there are edges from 4 -> 5 and 5 -> 4

 $\ensuremath{ \ensuremath{ \begin{tabular} \$

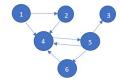
Correct
Correct, as evident from the drawing.

✓ The total size of the adjacency list is the number of nodes (6) plus the number of edges (8).

Correct
 Correct. Adjacency list has one list for each node and one entry in each list for each edge.

2. Consider the graph below:





Consider the adjacency matrix representation for the graph above. We recommend that you write down this representation for the graph above. Select all the correct facts from the list below.

- $\hfill \Box$ The matrix is an 8×8 matrix, since there are 8 edges in the graph.

Ocrrect Correct.

 \blacksquare . To represent the edge $2\to 4$, the matrix has an entry 1 in the row corresponding to node 2 and column corresponding to node 4 .

Ocrrect Correct.

If the graph were undirected, then the adjacency matrix equals its transpose.

 $\ \ \, \square \ \ \, \text{The adjacency matrix for a graph with } n \, \text{nodes and} \, m \, \text{edges is an} \, m \times m \, \text{matrix with} \, n \, \text{entries that}$

lacksquare The adjacency matrix for a graph with n nodes and m edges is an $n \times n$ matrix with m entries that are