




[Previous](#)







[Next](#)

Practice questions: Representing Graphs

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Questions on Representing Graphs

2/2 points (ungraded)

1. Consider a data structure for which the number of elements has to be defined beforehand. Is it a list or a array?

☒ Array

☐ List

✓

Answer
Correct:
The number of elements needs to be known in order to define an array, because an array is organized as a memory block in which elements are stored at consecutive addresses.

2. We store the adjacency matrix of a graph with an order of 20 in an array. How many elements does this array contain?

☐ 20


☐ 40

☒ 400

✓

Answer
Correct:
An adjaceny matrix contains as many rows and as many columns as the order of the graph. In this example, the adjacency matrix is 20 by 20, which equals 400. Therefore, we need an array with a size of 400.

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