1:

A screenshot of a computer

AI-generated content may be incorrect.

3:

First, I created an integer called size to keep track of how many numbers have been input. The first thing in the while loop is an if then statement that reallocates space for another integer in the array if size is greater than or equal to num\_elements, which will always return true after the number of integers that was the command argument have been input. After the if then statement, the user is prompted for input, the size variable increments, and a for loop prints all the numbers in the array.

4:

A screenshot of a computer

AI-generated content may be incorrect.

5:

An object is an instance of a class that contains attributes and methods. Each object has its own place in memory where data is stored.

6:

Linked lists, like dynamic memory arrays, allow for easy extension of a list to hold more data. Because each node in a linked list does not have to be directly after the node before it in the system’s memory, memory allocation is not an issue.