need until runtime. If we allocate more space than needed, there will be unused memory. If we allocate less space than needed, we will run out of memory.

To dynamically allocate memory, we use functions such as 'malloc' and 'calloc'. The amount of memory allocated is not contiguous, and the location of the data may not be known.

Error Handling

Unfortunately, there were some errors in the original text, making it difficult to understand. I have paraphrased and corrected the text to make it more readable. If you encounter any errors, please let me know.

Working with Arrays in Java

At runtime, loops and standard functions like Scanner can be used to take user input and store it in arrays. In the next video, we will discuss how to initialize an array at compile time and how to store data in the array at runtime. We will also cover how to use arrays and how to access data from them. Additionally, we will examine memory management and show how to use it to test our own code.

In this video, we've discussed the declaration, initialization, and accessing of 1D arrays. In the next video, we will cover how to insert data into arrays, traverse arrays, and work with 2D arrays. We will also