Exit Ticket

**Instructions:**

1. Briefly explain the concept of binary search and its key steps.

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1. Provide an example of a scenario where binary search can be successfully carried out.

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1. Describe a situation where binary search cannot be applied, and explain why.

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**Prompt:** Imagine explaining binary search to a friend who has never heard of it before. In a few sentences, cover the basic steps of binary search and illustrate its efficiency. Additionally, share a real-life scenario where binary search can be used successfully and another where it cannot be applied, providing reasons for the latter.

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**Reflection Questions:**

1. How does the "divide and conquer" nature of binary search contribute to its efficiency?

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1. Why is it important for the data to be ordered when using binary search?

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1. Reflect on the challenges discussed in class regarding binary search and even numbers of items.

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