



# **SoulShift - Educational Q&A Platform**

## **General Questions**

Practice Questions



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**Q1. What is the result of binary search if the target is less than the middle element?**

- A. Search the left half
- B. Search the right half
- C. Return the middle element
- D. End the search

*Solution: If the target is less than the middle element, binary search continues the search in the left half of the array.*

**Q2. How does binary search determine the middle index of an array?**

- A.  $(\text{low} + \text{high}) / 2$
- B.  $\text{low} + \text{high}$
- C.  $\text{low} * \text{high}$
- D.  $\text{high} - \text{low}$

*Solution: Binary search calculates the middle index using  $(\text{low} + \text{high}) / 2$  to find the midpoint of the current search range.*



