**Axon Car Sales Power BI Project Interview Questions:**

The interview questions can be divided into three categories:

* **Technical Skills:** These questions assess your understanding of Power BI and data analysis techniques.
* **Project Understanding:** These questions test your knowledge of the specific Axon Car Sales Power BI project.
* **Analytical Thinking:** These questions evaluate your ability to use data to draw insights and make recommendations.

**Technical Skills:**

* Describe the process of importing and cleaning data in Power BI.
* Explain how you would create calculated columns and measures using DAX in Power BI.
* How would you design an interactive dashboard for sales analysis in Axon's context (classic car sales)?
* What visualization techniques would you use to analyze sales trends and identify top-performing models?

**Project Understanding:**

* What were the key challenges Axon faced with their sales data before implementing Power BI?
* Can you describe the main objectives of the Axon Car Sales Power BI project?
* What types of data sources do you think were used for this project (e.g., sales records, car information)?
* How might the Power BI dashboards be used by different stakeholders at Axon (sales team, management)?

**Analytical Thinking:**

* Based on sales data, how could you identify which classic car models are most profitable for Axon?
* Can you suggest strategies to increase sales for specific car models using insights from Power BI?
* How might you use Power BI to analyze customer demographics and target marketing campaigns more effectively?
* Imagine a scenario where sales for a particular classic car segment decline. How would you use Power BI to investigate the reasons behind this?

**Bonus Points:**

* Discuss any challenges you faced while working on the Axon Car Sales Power BI project and how you overcame them.
* Can you demonstrate any advanced Power BI techniques you used in the project (e.g., drill-throughs, time intelligence)?
* If you weren't directly involved in the project, you can research common challenges in classic car sales and propose how Power BI could be used to address them.

Write a function to perform binary search on a sorted list.

def binary\_search(arr, target):

low = 0

high = len(arr) - 1

while low <= high:

mid = (low + high) // 2

if arr[mid] == target:

return mid

elif arr[mid] < target:

low = mid + 1

else:

high = mid - 1

return -1

# Test the function

print(binary\_search([1, 2, 3, 4, 5], 4)) # Output: 3