* Efficient data structures and algorithms are crucial for handling large inventories because they affect the speed and efficiency of data operations (add, update, retrieve, delete).
* Suitable Data Structures:

HashMap: For quick access and updates based on product ID.

ArrayList: For ordered storage but slower lookups compared to HashMap.

* Time Complexity:

Add: O(1)

Update: O(1)

Delete: O(1)

* Optimization:

better hash functions can be used to avoid collision