

Set

SILICON VALLEY ENGINEER

- **Unordered collection of unique elements.**
- Implemented using a hash table
 - **Fast access and retrieval times** even with a large number of elements
- Key points
 - **Uniqueness**
 - **Fast Operations**
 - O(1): Adding, Removing and Checking for the existence of element



Set

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- **SADD**: Adding elements to a set
- **SREM**: Removing elements from a set
- **SISMEMBER**: Checking if an element is a member of the set
- **SINTER, SUNION, SDIFF**: Performing set intersection, union, and difference
- **SUNIONSTORE**: Computes the union of multiple sets and stores the result in a new set.
- **SDIFFSTORE**: Computes the difference between two sets and stores the result in a new set.
- **SINTERSTORE**: Computes the intersection of multiple sets and stores the result in a new set.
- **SCARD**: Getting the number of elements in a set
- **SMEMBERS**: Getting all the members of a set