### ****1. What data structure represents a collection of elements with no order?****

* ○ Set
* ○ List
* ○ Queue
* ○ Stack

### ****2. Which data structure uses the FIFO principle?****

* ○ Stack
* ○ Heap
* ○ Queue
* ○ LinkedList

### ****3. Which tree structure allows quick insertion and deletion of elements?****

* ○ AVL Tree
* ○ B-Tree
* ○ Heap
* ○ Red-Black Tree

### ****4. In a hash table, what is the result of a hash function called?****

* ○ Index
* ○ HashCode
* ○ Value
* ○ Position

### ****5. Which tree structure has a logarithmic search time?****

* ○ AVL Tree
* ○ B-Tree
* ○ Binary Tree
* ○ Heap

### ****6. What data structure stores elements in a sorted order?****

* ○ Set
* ○ Heap
* ○ Queue
* ○ Stack

### ****7. Which balancing tree structure is known for self-balancing through rotations?****

* ○ AVL Tree
* ○ Red-Black Tree
* ○ B-Tree
* ○ Splay Tree

### ****8. What’s the primary advantage of using a HashSet?****

* ○ Ordering
* ○ Sorting
* ○ Uniqueness
* ○ Indexing

### ****9. Which heap allows the parent to be larger than children?****

* ○ Max-Heap
* ○ Min-Heap
* ○ AVL Tree
* ○ B-Tree

### ****10. What's a common implementation of a priority queue?****

* ○ Heap
* ○ Stack
* ○ Queue
* ○ LinkedList

### ****11. Which tree structure ensures logarithmic height?****

* ○ AVL Tree
* ○ B-Tree
* ○ Binary Tree
* ○ Red-Black Tree

### ****12. What's a common application of a hash table?****

* ○ Spell checking
* ○ Sorting
* ○ Dynamic programming
* ○ Caching

### ****13. Which data structure allows constant-time access to elements?****

* ○ HashTable
* ○ Queue
* ○ Stack
* ○ Heap

### ****14. Which balancing tree structure allows two balance factors?****

* ○ AVL Tree
* ○ Red-Black Tree
* ○ B-Tree
* ○ Splay Tree

### ****15. Which tree structure is optimized for search and retrieval operations?****

* ○ AVL Tree
* ○ B-Tree
* ○ Binary Tree
* ○ Red-Black Tree