Question:

Which of the symbol-table implementations in this section would you use for an application that does 10^6 put() operations and 10^3 get() operations, randomly intermixed?

Answer:

I use Symbol Table implementation using Binary Search Tree because of its complexity. In Linked List:

Complexity for put(): O(N) Complexity for get(): O(N)

In Binary Search Tree:

Complexity for put() : O(logN) Complexity for get() : O(logN)

For larger operations like 10⁶ and 10³, it would be efficient of using Binary Search Tree to implement Symbol Table.