

All Topics

- ★ *Types of data structure*
- ★ *Types of Algorithms*
- ★ *Memory allocation*
- ★ *Types of memory allocation*

- ★ *Asymptotic analysis*
- ★ *Big oh notation*

- ★ *Array*
- ★ *Operations*
- ★ *Types*
- ★ *Advantages*
- ★ *Disadvantages*
- ★ *Application*

- ★ *LinkedList*
- ★ *Operations*
- ★ *Types*
- ★ *Advantages*
- ★ *Disadvantages*
- ★ *Application*

- ★ *Recursion*
- ★ *Advantages*
- ★ *Disadvantages*
- ★ *Application*

- ★ *Strings*
- ★ *Problems*

- ★ *Binary search*
- ★ *Binary search with recursion*

Problems

- Binary Search $\rightarrow O(\log_2 n)$

The diagram illustrates the relationship between logarithmic and exponential forms. It shows two equations connected by a double-headed arrow (\Leftrightarrow).

Left equation: $\log_b(n) = x$

- \log is labeled as the function.
- b is labeled as the base.
- n is labeled as the argument.
- x is labeled as the exponent.

Right equation: $b^x = n$

- b is labeled as the base.
- x is labeled as the exponent.
- n is labeled as the argument.

- Binary Search Recursive
- Reverse a LinkedList
- Reverse LinkedList in recursive
- Delete current Node

Check ma [leetcode](#)