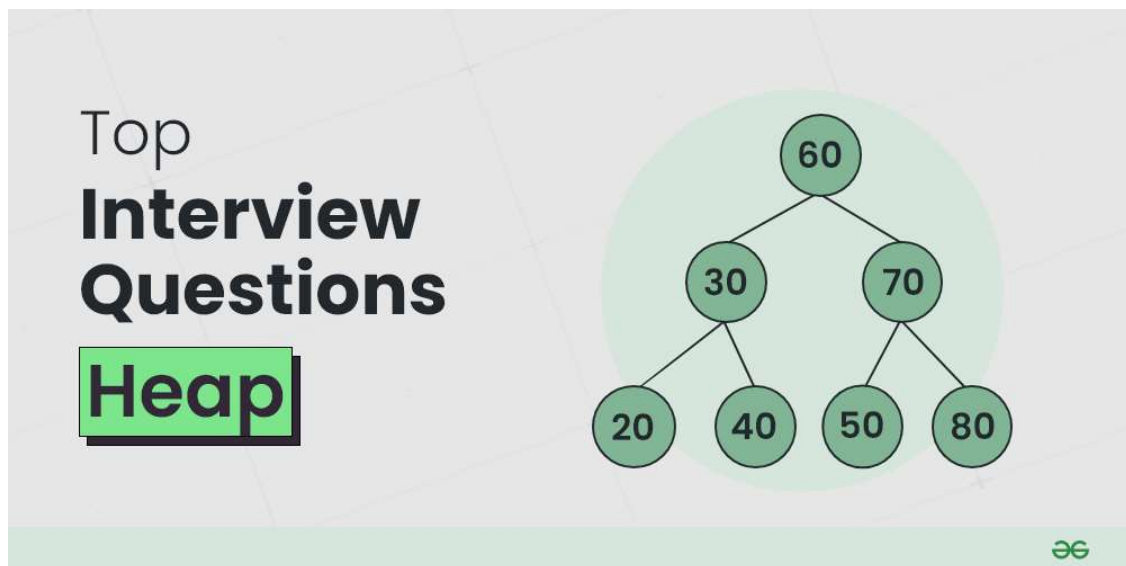




## Top 50 Problems on Heap Data Structure asked in SDE Interviews

Last Updated : 23 Jun, 2023

A **Heap** is a special **Tree-based Data Structure** in which the tree is a complete binary tree. Generally, heaps are of two types: **Max-Heap** and **Min-Heap**. To know more about this Data Structure in-depth refer to the [Tutorial on Heap Data-Structure](#).



Given below are the most frequently asked interview questions on Heaps:

Easy Interview Questions on Heap Data Structure
<a href="#">Kth smallest element in an array</a>
<a href="#">Minimum product of k integers in an array of positive Integers</a>
<a href="#">Sort an Almost Sorted Array</a>
<a href="#">Top K Frequent Elements</a>
<a href="#">Height of a complete binary tree (or Heap) with N nodes</a>
<a href="#">Minimum sum of two numbers formed from digits of an array</a>

## Easy Interview Questions on Heap Data Structure

[Kth smallest element in a row-wise and column-wise sorted 2D array](#)

[Sum of all elements between k1'th and k2'th smallest elements](#)

## Medium Interview Questions on Heap Data Structure

[Implement a Min Heap](#)

[Implement a Max Heap](#)

[Heap Sort](#)

[Convert max heap to min heap](#)

[Convert min Heap to max Heap](#)

[Check if a Binary Tree is a Min Heap](#)

[Check if a Binary Tree is a Max Heap](#)

[Binary Heap](#)

[Given level order traversal of a Binary Tree, check if the Tree is a Min-Heap](#)

[Implement a priority queue](#)

[How to implement Priority Queue – using Heap or Array?](#)

[Heap Sort for decreasing order using min heap](#)

[Find kth smallest element in a row-column sorted matrix](#)

[Largest triplet product in a stream](#)

[Connect n ropes with minimum cost](#)

## Medium Interview Questions on Heap Data Structure

[Merge two binary max heaps](#)

[Find k closest numbers](#)

[Sort an almost sorted array](#)

[K maximum sum combinations from two arrays](#)

[BST to max heap](#)

[Convert BST to Min Heap](#)

[K'th largest element in a stream](#)

[Find k numbers with most occurrences in the given array](#)

[Find the kth largest element in an array](#)

[Merge overlapping intervals](#)

[Game with String](#)

[Nearly sorted](#)

[Maximize The Array](#)

[Rearrange characters](#)

[Minimum sum of squares of character counts in a given string after removing k characters](#)

[Maximum sum of at most two non-overlapping intervals in a list of Intervals](#)

[K-th Largest Sum Contiguous Subarray](#)

## Hard Interview Questions on Heap Data Structure

[Merge k sorted arrays](#)

[Merge k Sorted Lists](#)

[Find the median of a stream of running integers](#)

[Smallest range in K lists](#)

[Huffman Encoding](#)

[Minimum cost to connect all cities](#)

[Single-Source Shortest Paths – Dijkstra's Algorithm](#)

[Sliding Window Maximum \(Maximum of all subarrays of size K\).](#)

[K maximum sum combinations from two arrays](#)

[Merge two sorted arrays in  \$O\(1\)\$  extra space using Heap](#)

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