PriorityQueue – The elements are inserted or deleted based on the priority.

How the priorities decide it?

Depending one the value of an element, if an element is small, then its priorities is high. If the element is large, then its priorities is low. And this data structure, we cannot decide which element we want to delete. Always highest priority element will be deleted (root element will be deleted). We cannot leave spaces in priority queue.

A PriorityQueue is used when the objects are supposed to be processed based on the priority. It is known that a Queue follows the First-In-First-Out algorithm, but sometimes the elements of the queue are needed to be processed according to the priority, that's when the PriorityQueue comes into play. The PriorityQueue is based on the priority heap. The elements of the priority queue are ordered according to the natural ordering, or by a Comparator provided at queue construction time, depending on which constructor is used.

When the smaller value is higher priority means it's a min heap. If we want to change the order or make it as max heap. So that the larger element having higher priority then we can define a comparator.