

Theme:

Set sail on a pirate adventure where you, as the captain, need to sort and prioritize treasure chests with varying values. Using Max-Heaps and Min-Heaps, you'll prioritize the most valuable treasures for your pirate crew and organize your loot in the best possible way!

Learning Goals:

- By completing this activity, participants will:
- •Learn to insert values into a Max-Heap to prioritize larger values.
- •Understand how to remove the root (most valuable treasure) and re-adjust the heap.
- •Gain experience with heapify operations to convert a list of values into a Min-Heap for prioritizing smaller values.
- •Understand the practical applications of Max-Heaps and Min-Heaps in real-world scenarios like sorting and prioritizing.



