

1. Implement a min heap (You can use the given max heap implementation).
2. Write a program to double (multiply by 2) all the odd numbers in a min/max heap.
3. Write a program to halve (divide by 2) all the even numbers in a min/max heap.
4. Suppose there are a number of people who applied for Covid vaccination. Take their ages in an integer array. Use priority queue (Max heap) to register them in descending order of their ages and who are above 30 years.
5. Sort an array in ascending/ descending order using heap sort algorithm.