Code: Max Priority Queue

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Implement the class for Max Priority Queue which includes following functions -

1. getSize -

Return the size of priority queue i.e. number of elements present in the priority queue.

2. isEmpty -

Check if priority queue is empty or not. Return true or false accordingly.

3. insert -

Given an element, insert that element in the priority queue at the correct position.

4. getMax -

Return the maximum element present in the priority queue without deleting. Return -Infinity if priority queue is empty.

5. removeMax -

Delete and return the maximum element present in the priority queue. Return -Infinity if priority queue is empty.

Note: main function is given for your reference which we are using internally to test the class.

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}
else if(pq[parent]<pq[childLeft]){
    int temp = pq[childLeft];
    pq[childLeft] = pq[parent];
    pq[parent] = temp;
    parent = childLeft;
}</pre>
parent = childLef
}
else{
    break;
}
childRight = 2*parent+2;
childLeft = 2*parent+1;
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