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public class GFG {
// Returns the optimal value a maximizer can obtain.
// depth is current depth in game tree.
// nodeIndex is index of current node in scores[].
// isMax is true if current move is of maximizer, else false
// scores[] stores leaves of Game tree.
// h is maximum height of Game tree
static int minimax(int depth, int nodeIndex, boolean isMax,
            int scores[], int h)
{
    // Terminating condition. i.e leaf node is reached
    if (depth == h)
        return scores[nodeIndex];
    // If current move is maximizer, find the maximum attainable
    // value
    if (isMax)
    return Math.max(minimax(depth+1, nodeIndex*2, false, scores, h),
            minimax(depth+1, nodeIndex*2 + 1, false, scores, h));
    // Else (If current move is Minimizer), find the minimum
    // attainable value
    else
        return Math.min(minimax(depth+1, nodeIndex*2, true, scores, h),
            minimax(depth+1, nodeIndex*2 + 1, true, scores, h));
}
// A utility function to find Log n in base 2
static int log2(int n)
return (n==1)? 0 : 1 + log2(n/2);
// Driver code
    public static void main (String[] args) {
            // The number of elements in scores must be
    // a power of 2.
    int scores[] = {3, 5, 2, 9, 12, 5, 23, 23};
    int n = scores.length;
    int h = log2(n);
    int res = minimax(0, 0, true, scores, h);
    System.out.println( "The optimal value is : " +res);
    }
}
```