## MIN MAX ALGORITHM

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```
PROGRAM:
 import math
def minimax(curDepth, nodeIndex, maxTurn, scores, targetDepth):
         if curDepth == targetDepth:
                 return scores[nodeIndex]
        if maxTurn:
                return max(minimax(curDepth + 1, nodeIndex * 2, False, scores,
                               targetDepth),
                minimax(curDepth + 1, nodeIndex * 2 + 1, False, scores, targetDepth))
        else:
                 return min(minimax(curDepth + 1, nodeIndex * 2, True, scores,
                            targetDepth),
                minimax(curDepth + 1, nodeIndex * 2 + 1, True, scores, targetDepth))
        scores = [3, 5, 2, 9, 12, 5, 23, 23]
         treeDepth = math.log(len(scores), 2)
         print("The optimal value is:", end=" ")
```

print(minimax(0, 0, True, scores, treeDepth))

**OUTPUT:** 

The optimal value is: 12