```
import math
def minimax (curDepth, nodeIndex,
     maxTurn, scores,
     targetDepth):
  # base case : targetDepth reached
  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))
     The optimal value is : 12
```