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LAB-10

```
def is_valid(board, row, column):
    for i in range(row):
        if board[i] == col or abs(board[i] - col) == abs(board[i] - row):
            return False
    return True

def a_b(board, row, a, b, isMaximizing):
    if row == len(board):
        return 1

    if isMaximizing:
        ms = 0
        for col in range(len(board)):
            if is_valid(board, row, col):
                board[row] = col
                ms += a_b(board, r+1, a, b, False)
                board[row] = -1
                a = max(a, ms)
                if b <= a:
                    break
        return ms
    if else:
        ms = float('inf')
        for col in range(len(board)):
            boa if is_valid(board, row, col)
                board[row] = col
                ms = min(ms, a_b(board, r+1,
                                 a, b, True))
                board = -1
                b = min(b, ms)
                if b <= a:
                    break
        return ms.
```

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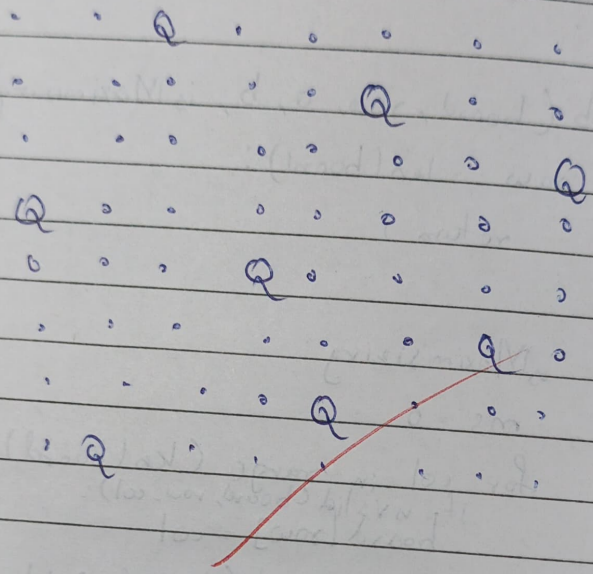
```
def solve():
    board = [-1]*8
    a = -float('inf')
    b = float('inf')
    return a_b(board, 0, a, b, True)
```

Output :



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