

## LAB-10

```

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

```

```

            if is_valid(board, row, col)

```

```

                board[row] = col

```

```

                ms = min(ms, a_b(board, row+1,
                                   0, b, True))

```

```

                board = -1

```

```

                b = min(b, ms)

```

```

                if b < a:

```

```

                    break

```

```

        return ms

```

```
def solve():
```

board = [-1] \* 8

$$a = -\text{float}('inf')$$

b - float (infix)

return a-p (board, 0, a', b, Tower)

Output :-

This image shows a single sheet of white paper with horizontal blue or grey ruling lines. Small, evenly spaced circular holes are punched along each line, suggesting it's designed for a spiral binding or a similar fastening system. The paper appears slightly aged or off-white. There are some faint, illegible markings and shadows across the surface, possibly from the scanning process or the texture of the paper itself. A red diagonal line is visible near the bottom right corner.

Shelby = 3/12/24