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188.
        MOUSE AND CAT GAME
PROGRAM:
from collections import deque
def cat_mouse_game(graph):
  n = len(graph)
  DRAW, MOUSE, CAT = 0, 1, 2
  color = [[[0] * 3 for _ in range(n)] for _ in range(n)]
  q = deque()
  for i in range(1, n):
    for t in range(1, 3):
      color[0][i][t] = MOUSE
      q.append((0, i, t))
  for i in range(1, n):
    color[i][i][1] = CAT
    q.append((i, i, 1))
    color[i][i][2] = CAT
    q.append((i, i, 2))
  while q:
    x, y, t = q.popleft()
    for parent in graph[x] if t == 1 else graph[y]:
      if parent == 0:
        continue
      if t == 1:
        if color[parent][y][2] == DRAW:
           color[parent][y][2] = CAT
           q.append((parent, y, 2))
      else:
        if all(color[parent][child][1] == CAT for child in graph[parent]):
           color[parent][y][1] = MOUSE
           q.append((parent, y, 1))
  return color[1][2][1]
# Example 1
graph1 = [[2, 5], [3], [0, 4, 5], [1, 4, 5], [2, 3], [0, 2, 3]]
print(cat_mouse_game(graph1)) # Output: 0
# Example 2
graph2 = [[1, 3], [0], [3], [0, 2]]
print(cat_mouse_game(graph2)) # Output: 1
OUTPUT:
 0
 0
 === Code Execution Successful ===
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TIME COMPLEXITY:O(N^2)