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from typing import List, Set
class ActivityM2:
  @staticmethod
  def find_edges(grid: List[List[str]]) -> List[Set[int]]:
     if not grid or not grid[0]:
        return []
     m, n = len(grid), len(grid[0])
     visited = set()
     edges = []
     def dfs(i: int, j: int, edge: Set[int]) -> None:
        if (i, j) in visited:
           return
        visited.add((i, j))
        directions = [(0, 1), (1, 0), (0, -1), (-1, 0)]
        is edge = False
        for dx, dy in directions:
           x, y = i + dx, j + dy
           if x < 0 or x >= m or y < 0 or y >= n or grid[x][y] == '0':
              is_edge = True
           elif grid[x][y] == '1':
              dfs(x, y, edge)
        if is_edge:
           edge.add(i * n + j)
     for i in range(m):
        for j in range(n):
           if grid[i][j] == '1' and (i, j) not in visited:
              edge = set()
              dfs(i, j, edge)
              if edge:
                 edges.append(edge)
     return edges
if __name__ == "__main__":
  example = [
     ['1', '1', '0', '0', '0'],
     ['1', '1', '0', '0', '0'],
     ['0', '0', '1', '0', '0'],
     ['0', '0', '0', '1', '1']
  ]
```

edges = ActivityM2.find_edges(example)
print(edges)