function calculateScores (R: [id₁...idₙ])

1. possibleRankedLists = {} # a dictionary that maps idᵢ to a possible
    # ranked list determined by idᵢ
    for i in range (1...n):
        possibleRankedLists [idᵢ] = newRankedList (idᵢ, R)
        # rank i → [(idᵢ, scoreᵢ, overallScoreᵢ, sourceᵢ), ...,
        # (idᵢ, scoreᵢ, overallScoreᵢ, sourceᵢ)]

2. scoreInfo = {} # a dictionary that maps a rank to a list of
    # tuples: (id, score, overallScore, from)
    for i in range (1...n):
        # to simplify, we let possibleRankedList be a list, not a
        # dictionary

3. pr = possibleRankedLists [idᵢ]
    for j in range (0...length (pr)-1):
        x = pr [j]
        scoreInfo [i+j].append( (pr [j],
            score (x, i+j, possibleRankedLists),
            score (x, i+j, possibleRankedLists),
            None))

return scoreInfo