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i. the optimal cost of a subtree starting at node (i, j) is
    the sum of min cost of left and right subtrees plus
    the sum of frequencies i to j.
11. mincost (i,j) = \sum_{n=1}^{\infty} P(n) + \min_{r=1}^{\infty} \left[ cost(i,r-1) + cost(r+1,j) \right]
111. pseudo code:
     for i = 1 \rightarrow m
c(i,i) = p(i)
     for L = 2 -> n
        for i = 0 -> n- L+1
            \dot{\partial} = i + L - 1
             bor r= i -> j
                   left = if r > 1
then c(i, r-1)
                  right = 'y r < j
                             then c(r+1, a)
                              use o
                  coot = left + night + \sum_{n=1}^{d} P(n)
                  it cost < c(i, j)
                        cost(i,j) = c
```