```
Optimal BST (p,q,n)
{
      for i = 1 to n+1 do
      {
      e[i,i-1] = q_{i-1}
      w[i,i-1] = q_{i-1}
      }
      for k = 1 to n do
        for i = 1 to n-k+1 do
        {
              j = i + k - 1
              e[i,j] = 99
              w[i,j] = w[i, j-1] + pj + qj
            for r = i to j do
          {
            t = e[i,r-1] + e[r+1, j] + w[i,j]
            if t < e[i,j] then
          {
              e[i,j]=t
              root[i,j]=r
          }
          }
        }
}
```