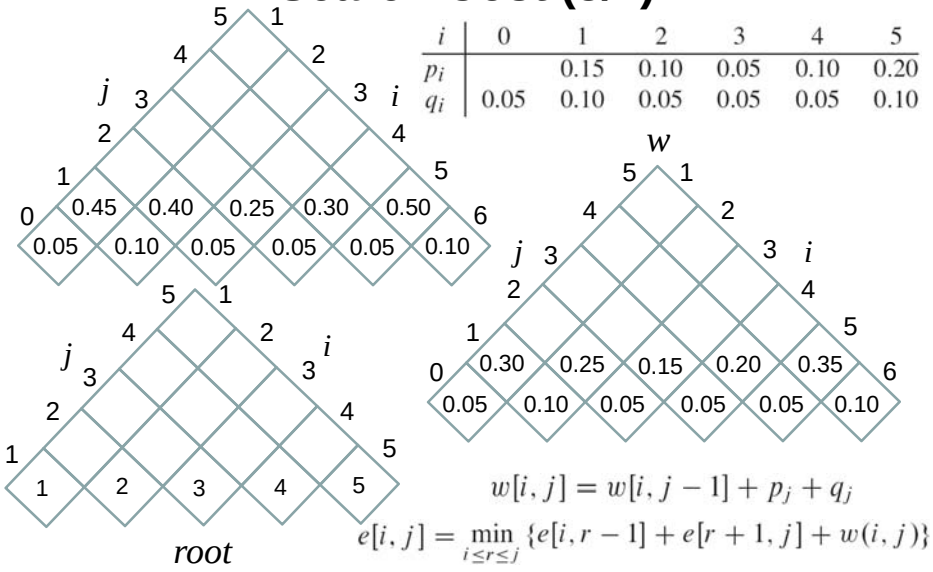
Step 3: Computing the Expected Search Cost (3/7)

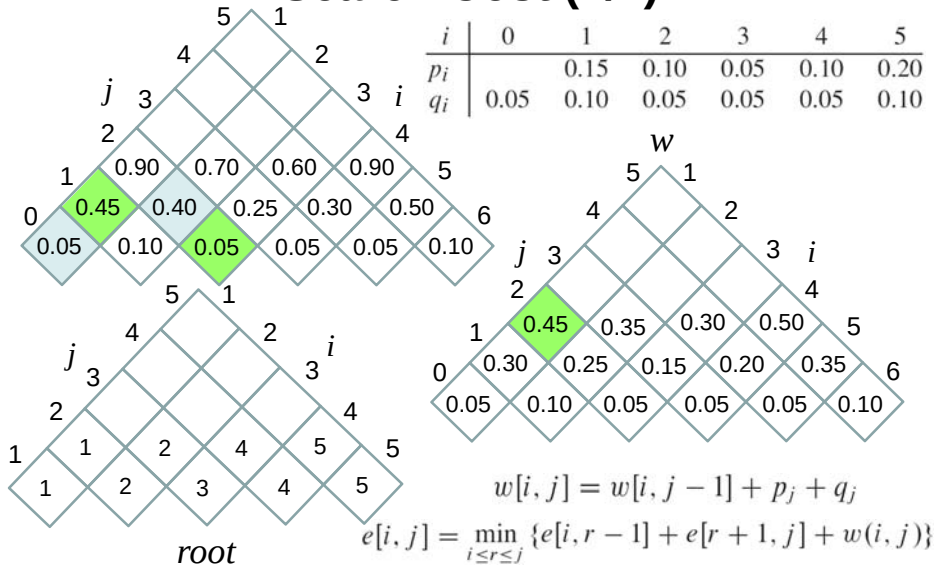


i	0	1	2	3	4	5
p_i		0.15	0.10	0.05	0.10	0.20
q_i	0.05	0.10	0.05	0.05	0.05	0.10

$$w[i, j] = w[i, j-1] + p_j + q_j$$

$$e[i, j] = \min_{i \le r \le j} \{e[i, r-1] + e[r+1, j] + w(i, j)\}$$

Step 3: Computing the Expected Search Cost (4/7)

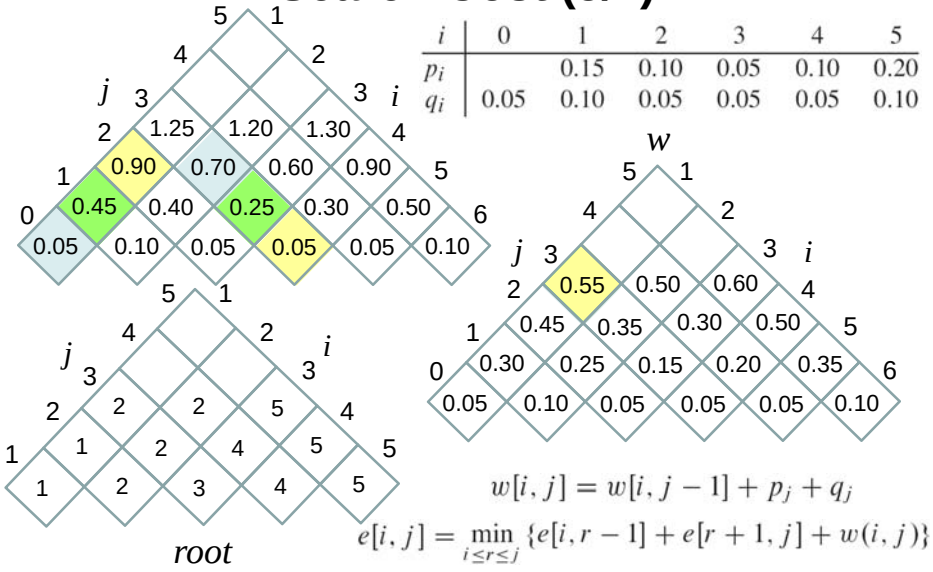


i	0	1	2	3	4	5
p_i		0.15	0.10	0.05	0.10	0.20
q_i	0.05	0.10	0.05	0.05	0.05	0.10

$$w[i, j] = w[i, j-1] + p_j + q_j$$

$$e[i, j] = \min_{i \le r \le j} \{e[i, r-1] + e[r+1, j] + w(i, j)\}$$

Step 3: Computing the Expected Search Cost (5/7)

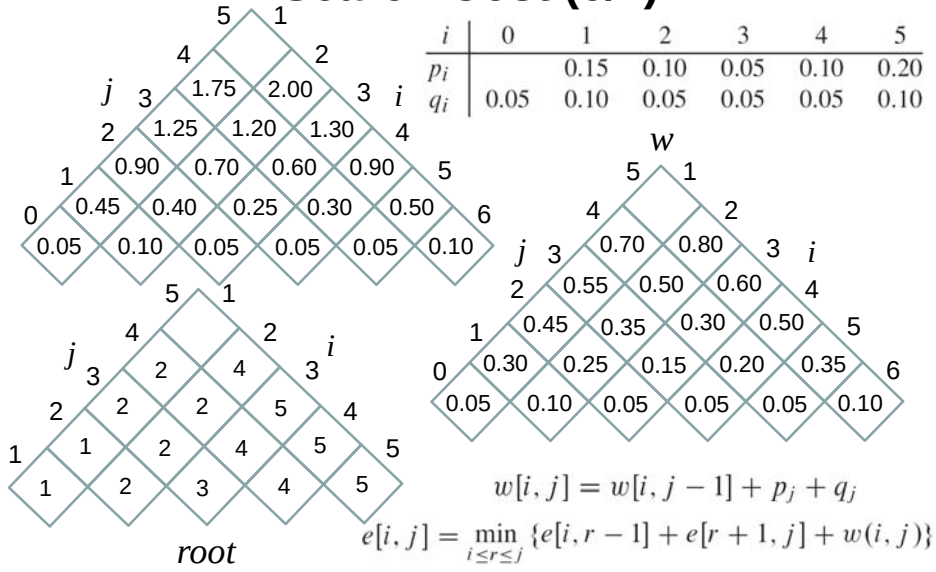


i	0	1	2	3	4	5
p_i		0.15	0.10	0.05	0.10	0.20
q_i	0.05	0.10	0.05	0.05	0.05	0.10

$$w[i, j] = w[i, j-1] + p_j + q_j$$

$$e[i, j] = \min_{i \le r \le j} \{e[i, r-1] + e[r+1, j] + w(i, j)\}$$

Step 3: Computing the Expected Search Cost (6/7)

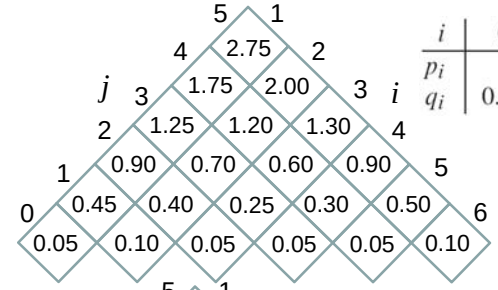


i	0	1	2	3	4	5
p_i		0.15	0.10	0.05	0.10	0.20
q_i	0.05	0.10	0.05	0.05	0.05	0.10

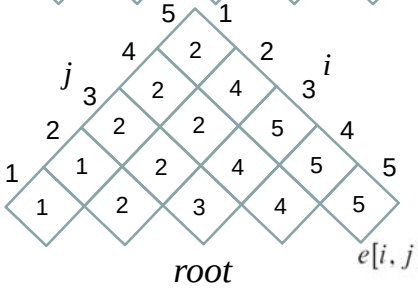
$$w[i, j] = w[i, j-1] + p_j + q_j$$

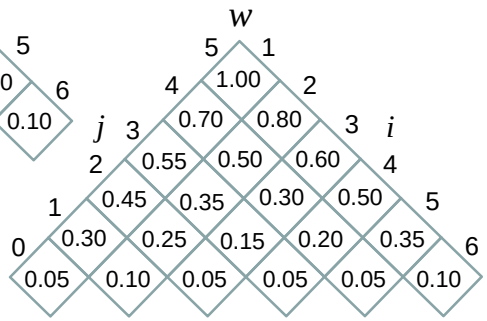
$$e[i, j] = \min_{i \le r \le j} \{e[i, r-1] + e[r+1, j] + w(i, j)\}$$

Step 3: Computing the Expected Search Cost (7/7)



i	0	1	2	3	4	5
p_i		0.15	0.10	0.05	0.10	0.20
q_i	0.05	0.10	0.05	0.05	0.05	0.10





$$w[i, j] = w[i, j-1] + p_j + q_j$$

$$e[i, j] = \min_{i \le r \le j} \{e[i, r-1] + e[r+1, j] + w(i, j)\}$$

Homework Assignment #2

Problem 15-2 Longest Palindrome Subsequence

- TAs will announce the detailed Input/Output format in Moodle.
- Please submit your program to e-Tutor.
- Please submit your README document to Moodle.
- **Due Date: 5 April 2017**.