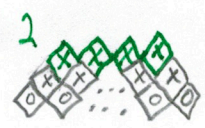
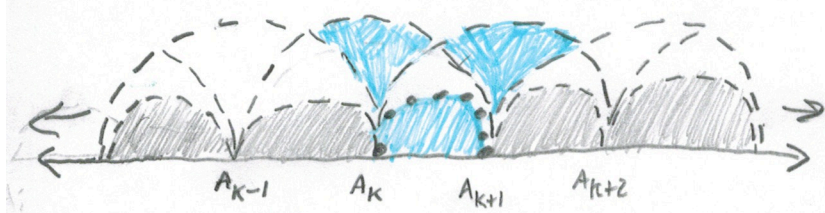
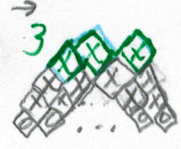
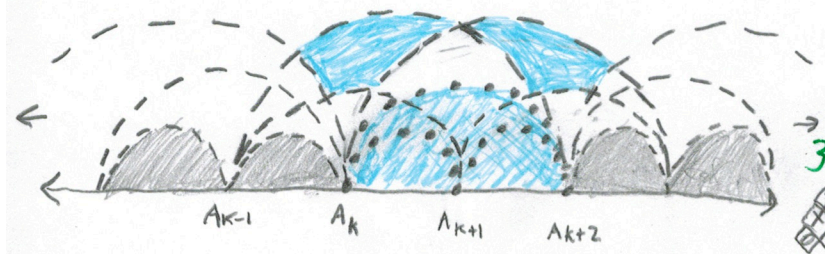


- The first split choice above the 0 diagonal is considered



- A choice is eliminated from the already populated level, and the next level of choice is enumerated.  
- The First elimination represents the split  $(A_{i...k})(A_{k...j})$ , so  $(A_k A_{k+1})$  will not be parenthesized.



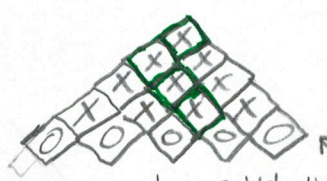
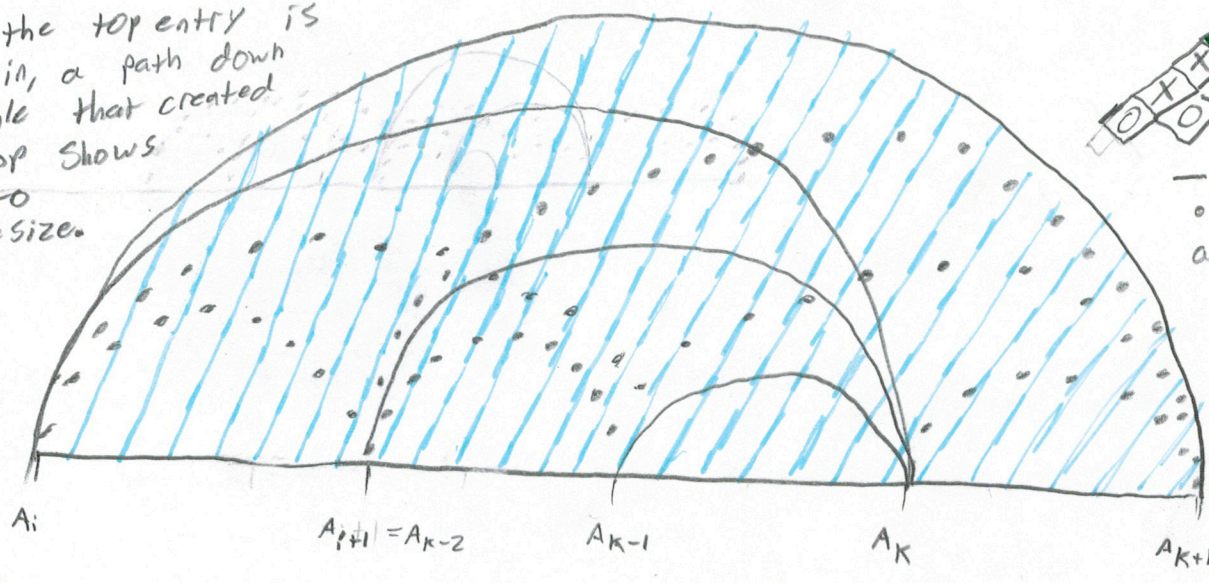
- This shows the tabular process for a chain of arbitrary size until the last entry is filled in with the minimum cost of the whole system.

- Certainty is shown on both sides of a previous choice to display multiple options, only one along the chain will be filled in at each step.

- At each step, a further level of choice is weighed, and one from each of the already considered is eliminated.

- Once the table is completely filled in, the diagram may look like:

- Once the top entry is filled in, a path down the table that created the top shows how to parenthesize.



- The solid lines of this example are boxed in green