Formal Language Selected Homework Chapter 6.3

2. Use the CYK algorithm to find a parsing of the string aab, using the grammar of Example 6.11.

Example 6.11 Determine whether the string $w = aabbb$ is in the language generated by the grammar

$$S \rightarrow AB,$$
$$A \rightarrow BB|a,$$
$$B \rightarrow AB|b.$$

4. Use the CYK method to determine if the string $w = aaabbbbab$ is in the language generated by the grammar $S \rightarrow aSb|b$.