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SOUTHERN UNIVERSITY OF SCIENCE AND TECHNOLOGY

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for SUSTech CSE

HOMEWORK 3

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1 Exercise 1 (Top-Down Parsing):

Consider the following grammar G:

$$\begin{aligned} S &\rightarrow aB \\ B &\rightarrow S + B | \epsilon \end{aligned}$$

1.1 1. Construct the predictive parsing table for G. [20 points]

表 1: Parsing Table

Non-Terminal	INPUT SYMBOL		
	a	+	\$
S	$S \rightarrow aB$		
B	$B \rightarrow S + B$		