



南方科技大学
SOUTHERN UNIVERSITY OF SCIENCE AND TECHNOLOGY

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for SUSTech CSE

PROJECT 1

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1 Consider the following context-free grammar G

$$S \rightarrow SS + | SS * | a$$

1.1 Is the string $a+a*a$ in $L(G)$? [20 points]:

No, it isn't in $L(G)$. For this grammar, the first two character of the string must be aa or the string just have a single character a .

1.2 Give a leftmost derivation for the string $aa*aa+*$. [20 points]:

S