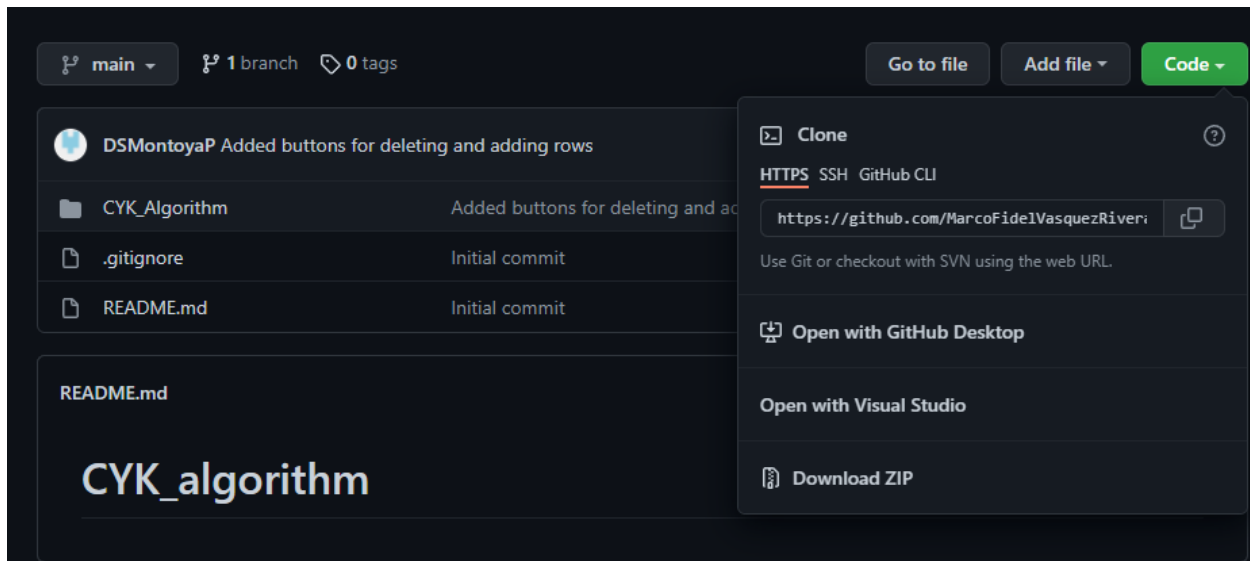David Steven Montoya Parra
Marco Fidel Vásquez

CYK ALGORITHM

Step 1: Download the program as a ZIP from https://github.com/MarcoFidelVasquezRivera/CYK_algorithm.git and run it on your IDE of choice or use the .exe file.

Step 2: Fill out the context independent grammar in Chomsky's normal form, you can add and remove rows and columns as needed, empty columns will be ignored, however empty rows are not allowed. The symbol to represent lambda in the program is "%"

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Step 3: Input the string to be checked in the grammar in lowercase.

CYK Algorithm

	S	AB	%
▶	A	BB	a
	B	AB	b

aabbb

Check

Add Row   Remove Row   Add Column   Remove Column

Step 4: If the string can be formed by the context independent grammar the program will show the following message

Success   ✕

ⓘ   The given input can be generated with this GIC

OK
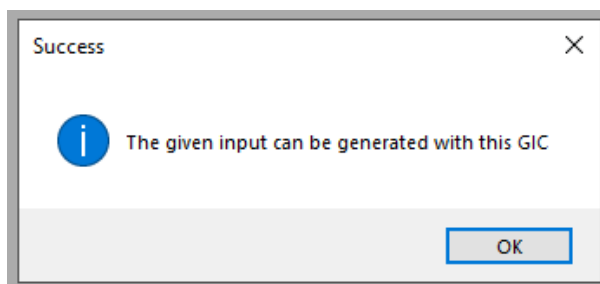
Otherwise, if it cannot be formed it will return this

Failure   ✕

⚠   The given input cannot be generated with this GIC

OK