PROGRAM :-

**#include <stdio.h>**

**#include <string.h>**

**void eliminateLeftRecursion(char \*productions[], int n) {**

**for (int i = 0; i < n; i++) {**

**char \*prod = productions[i];**

**if (prod[0] == prod[3]) { // Check for left recursion**

**printf("Left recursion found in production: %s\n", prod);**

**char newProd[50];**

**sprintf(newProd, "%c' -> %s%c' | ε", prod[0], &prod[3], prod[0]);**

**printf("New production: %s\n", newProd);**

**} else {**

**printf("No left recursion in production: %s\n", prod);**

**}**

**}**

**}**

**int main() {**

**char \*productions[] = {**

**"A -> A alpha | beta",**

**"B -> beta",**

**"C -> C gamma | delta"**

**};**

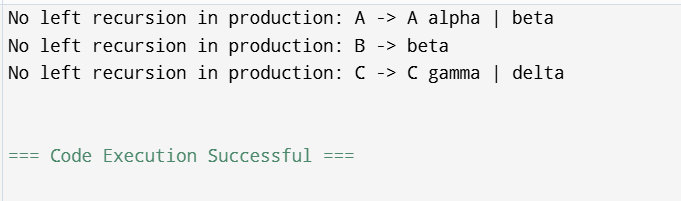
**int n = sizeof(productions) / sizeof(productions[0]);**

**eliminateLeftRecursion(productions, n);**

**return 0;**

**}**

**OUTPUT:-**

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