#include <stdio.h>

#include <string.h>

int isBelongToCFG(char str[]) {

if (str[0] == '1' && str[strlen(str) - 1] == '1') {

int i = 1;

while (str[i] == '0' || str[i] == '1') {

i++;

}

if (str[i] == '\0') {

return 1;

}

}

return 0;

}

int main() {

char str[100];

printf("Enter a string: ");

scanf("%s", str);

if (isBelongToCFG(str)) {

printf("The string belongs to the CFG.\n");

} else {

printf("The string does not belong to the CFG.\n");

}

return 0;

}