#include <stdio.h>

int main() {

int state = 0;

char input\_string[100];

printf("Enter the input string: ");

scanf("%s", input\_string);

for (int i = 0; input\_string[i] != '\0'; i++) {

if (state == 0 && input\_string[i] == 'a') {

state = 1;

} else if (state == 1 && input\_string[i] == 'a') {

state = 1;

} else {

state = -1;

break;

}

}

if (state == 1) {

printf("Accepted: The input string belongs to the language.\n");

} else {

printf("Rejected: The input string does not belong to the language.\n");

}

return 0;

}