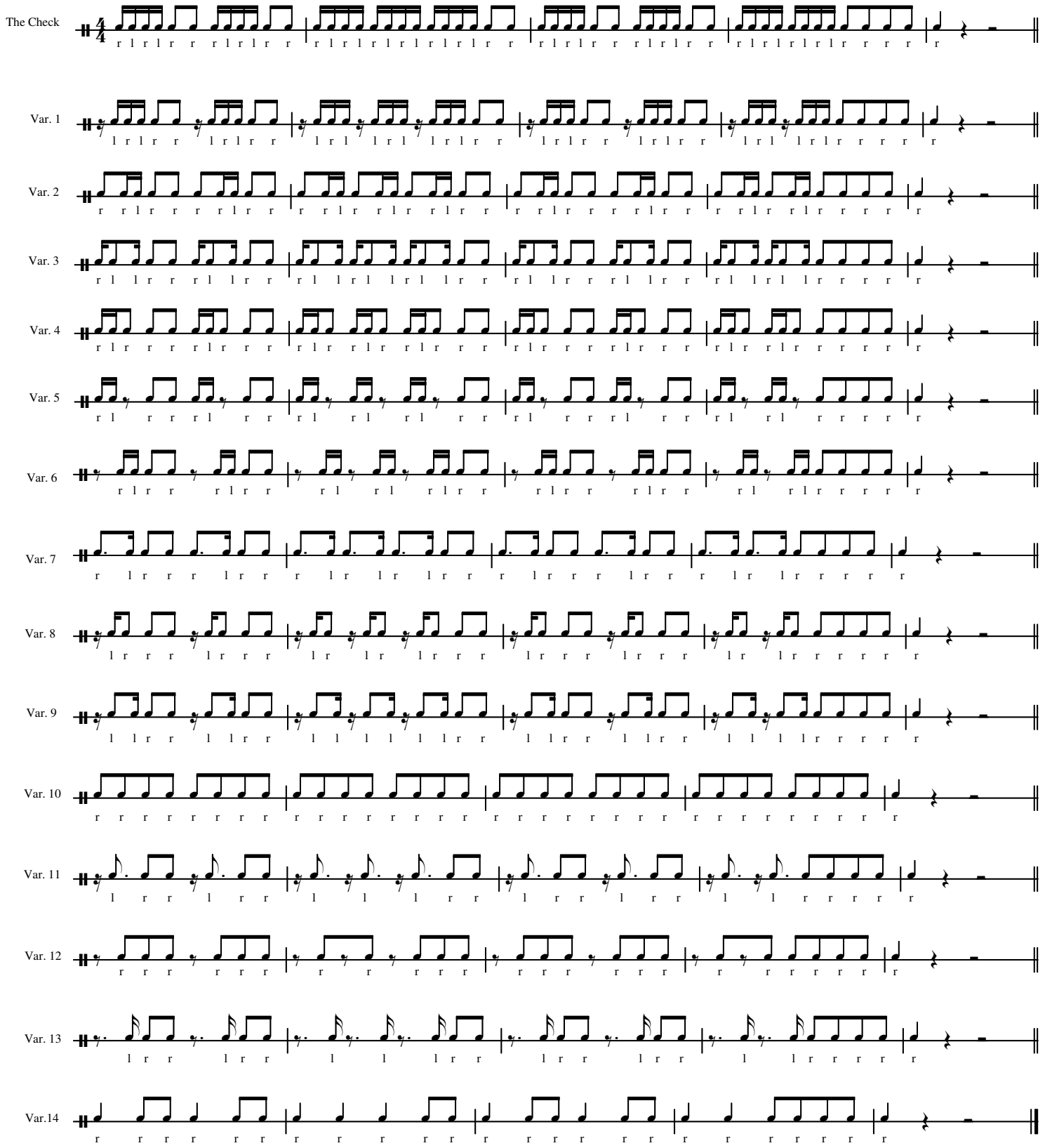Duple Check Patterns