Java Coffee Drawing

Write a program that draws a coffee cup after receiving an integer. It determines the cup's sizes the width is 3 * n + 6 and the height is 3 * n + 1.

Output

An integer in a range [3...27].

Input

A drawing of a Java coffee cup as it is in the examples below.

Examples

Вход	Изход	Вход	Изход	Вход	Изход
3	~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	5	~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	8	~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~