Parentheses   P31111_en

Given a sequence made up of only '(' and ')', tell if the parentheses close correctly.

Input

Input consists of a sequence of parentheses.

Output

Print "yes" or "no", depending on whether the parentheses close correctly or not.

Sample input 1	Sample output 1
`(())()()`	`yes`

Sample input 2	Sample output 2
`(()()))(`	`no`

Sample input 3	Sample output 3
`())()`	`no`

Sample input 4	Sample output 4
`((()`	`no`

Problem information

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