Mario Kart
Time Limit: 1 second

Description

Mario is in between tracks, and has noticed he needs to fill up his Kart with gas! Luckily, Mario has a secret trick up his sleeve to come in first next race.

Mario knows that he always races best when he fills up his Kart with an amount of gas which is also a palindrome. A palindrome is any series of characters which is the same whether read backwards or forwards ("race car", "kayak", "aibohphobia", etc.). However, Mario is running out of coins, and needs to be as frugal as possible. What is the smallest number of coins Mario needs to spend in order to achieve a palindromic gas tank reading?

Input

There is only one line of input, containing $G$, $T$, and $C$, denoting the current amount of gas in Mario’s tank, the total tank size in StarGallons, and the cost of a StarGallon of gas in coins, respectively.

$0 \leq G \leq T \leq 10^{19}$
$0 < C \leq 10^5$

Output

Your output will be a single line, containing the lowest number of coins Mario must spend to achieve his lucky gas tank reading. If it is impossible, simply output “BLUE SHELLED” (quotes for clarity). Your answer shall not exceed $10^{19}$. Mario’s tank must have at least one StarGallon of gas to be able to race.

Sample

<table>
<thead>
<tr>
<th>Input</th>
<th>Output</th>
</tr>
</thead>
<tbody>
<tr>
<td>12 25 10</td>
<td>100</td>
</tr>
<tr>
<td>13 25 47</td>
<td>423</td>
</tr>
<tr>
<td>12 15 5</td>
<td>BLUE SHELLED</td>
</tr>
</tbody>
</table>