

A. Chewbacca and Number

time limit per test: 1 second

memory limit per test: 256 megabytes

input: standard input

output: standard output

Luke Skywalker gave Chewbacca an integer number x . Chewbacca isn't good at numbers but he loves inverting digits in them. Inverting digit t means replacing it with digit $9 - t$.

Help Chewbacca to transform the initial number x to the minimum possible **positive** number by inverting some (possibly, zero) digits. The decimal representation of the final number shouldn't start with a zero.

Input

The first line contains a single integer x ($1 \leq x \leq 10^{18}$) — the number that Luke Skywalker gave to Chewbacca.

Output

Print the minimum possible positive number that Chewbacca can obtain after inverting some digits. The number shouldn't contain leading zeroes.

Examples

input	Copy
27	
output	Copy
22	
input	Copy
4545	
output	Copy
4444	

Codeforces Round 291 (Div. 2)

Finished

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→ Problem tags

greedy implementation *1200
No tag edit access

→ Contest materials

- Announcement
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Server time: May/30/2023 11:50:40^{UTC-3} (k1).

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