

Sharmeen And Sadness

Sharmeen is a little girl who loves her father very much. She becomes happy when her father is at home, but she becomes sad if her father is not at home. Sharmeen is a little girl and she learned only about `-` (Hyphen) and `_` (Underscore). If her father is not at home for 3 days she wrote at her notebook `-_-` which indicates that, she is sad at her father's absence. If her father is absent for 4 days she wrote `-_--` which is her sadness for these 4 days. Her sadness for 5 days is `-_--_` and her sadness for 6 days is `-_--_-` and her sadness for 1 day is `-` and her sadness for 2 days is `-_`

You will be given how many days her father is not present at home. Can you write the sadness of Sharmeen?

Input

You will be given an integer n ($1 \leq n \leq 10^5$)

Output

You have to print the sadness of Sharmeen for n days.

Example

Input:

10

Output:

`-_--_-`