ICPC Assiut University Community

Newcomers Training , Do Your Best



HOME TOP CATALOG CONTESTS GYM PROBLEMSET GROUPS RATING EDU API CALENDAR HELP

PROBLEMS SUBMIT CODE MY SUBMISSIONS STATUS STANDINGS CUSTOM INVOCATION

M. Postcard

time limit per test: 1 second
memory limit per test: 256 megabytes input: standard input output: standard output

Andrey received a postcard from Irina. It contained only the words "Hello, Andrey!", and a strange string consisting of lowercase Latin letters, snowflakes and candy canes. Andrey thought that this string is an encrypted message, and decided to decrypt it.

Andrey noticed that snowflakes and candy canes always stand after the letters, so he supposed that the message was encrypted as follows. Candy cane means that the letter before it can be removed, or can be left. A snowflake means that the letter before it can be removed, left, or repeated several times.

For example, consider the following string:



This string can encode the message «happynewyear». For this, candy canes and snowflakes should be used as follows:

- candy cane 1: remove the letter w,
- snowflake 1: repeat the letter p twice,
- candy cane 2: leave the letter n,
- $\bullet\,\,$ snowflake 2: remove the letter w,
- snowflake 3: leave the letter e.

hwappynewwyear

Please note that the same string can encode different messages. For example, the string above can encode "hayewyar", "happppynewwwwwyear", and other messages.

Andrey knows that messages from Irina usually have a length of k letters. Help him to find out if a given string can encode a message of k letters, and if so, give an example of such a message.

Input

The first line contains the string received in the postcard. The string consists only of lowercase Latin letters, as well as the characters "" and "", meaning snowflake and candy cone, respectively. These characters can only appear immediately after the letter. The length of the string does not exceed 200.

The second line contains an integer number k ($1 \leq k \leq 200$), the required message length.

Outpu

Print any message of length k that the given string can encode, or "Impossible" if such a message does not exist.

Examples



Assiut University Training Newcomers Public





→ **Group Contests**



- Sheet #10 (General Hard)
- Sheet #9 (General medium)
- Sheet #8 (General easy)
- Sheet #7 (Recursion)
- Sheet #6 (Math Geometry)
- Sheet #5 (Functions)
- Sheet #4 (Strings)
- Contest #3.1
- Sheet #3 (Arrays)
- Contest #2
- Sheet #2 (Loops)
- Contest #1
- Sheet #1 (Data type Conditions)

Sheet #10 (General Hard)

Finished

Practice



ightarrow About Time Scaling

This contest uses time limits scaling policy (depending on a programming language). The system automatically adjusts time limits by the following multipliers for some languages. Despite scaling (adjustment), the time limit cannot be more than 30 seconds. Read the details by the link.

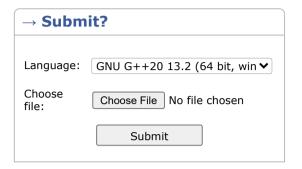
ightarrow Virtual participation



| input | Сору |
|------------|------|
| ababb 5 | |
| output | Сору |
| ababb | |
| input | Сору |
| ab?a 1 | |
| output | Сору |
| Impossible | |

Virtual contest is a way to take part in past contest, as close as possible to participation on time. It is supported only ICPC mode for virtual contests. If you've seen these problems, a virtual contest is not for you solve these problems in the archive. If you just want to solve some problem from a contest, a virtual contest is not for you solve this problem in the archive. Never use someone else's code, read the tutorials or communicate with other person during a virtual contest.

Start virtual contest



| → Last submissions | | |
|--------------------|----------------------|--------------------------------|
| Submission | Time | Verdict |
| 211793502 | Jul/02/2023 09:22 | Accepted |
| 211792579 | Jul/02/2023 09:09 | Accepted |
| 211750423 | Jul/01/2023 20:21 | Accepted |
| 211750144 | Jul/01/2023 20:19 | Time limit exceeded on test 76 |
| 211747829 | Jul/01/2023 19:54 | Wrong answer on test 60 |
| 211747075 | Jul/01/2023 19:47 | Wrong answer on test 15 |
| 211746863 | Jul/01/2023 19:45 | Wrong answer on test 15 |
| 211746666 | Jul/01/2023 19:43 | Wrong answer on test 12 |
| 211746544 | Jul/01/2023 19:42 | Wrong answer on test 1 |
| 211745540 | Jul/01/2023 19:33 | Wrong answer on test 8 |

Codeforces (c) Copyright 2010-2024 Mike Mirzayanov
The only programming contests Web 2.0 platform
Server time: May/14/2024 23:58:11 (j3).
Desktop version, switch to mobile version.
Privacy Policy

Supported by



