C. Study INTRO!

time limit per test: 2 seconds

memory limit per test: 256 megabytes

Students of FCIS-ASU are going to start the Intro course final exam.

Zulaa is a big cheater so he decided to make a program that will help him in the exam. One of the most difficult questions in the exam is to write an HTML script, but Zulaa was too lazy to study HTML scripts and tags so the program he wanted to create should solve this question.

He tried a lot but he failed so he asked for your help. He asked you to make a program that will take the tags sequence and you should validate this script. As you know a script is valid if it contains only one Header tag and it should be the first tag in the script as well as the EndHeader should be the last tag in the script. Also in a valid script, every tag should be closed in a right manner, look at notes for more clarification.

Input

In the first line of the input you will be given an integer n $(1 \leq n \leq 10^5)$, followed by n lines each line contain tag.

Start tags are {"Header", "Row", "Cell", "Table"} while end tags are {"EndHeader", "EndRow", "EndCell", "EndTable"}.

Each start tag is ended by the same tag but an "End" precedes it.

Output

The output should contain only one word "ACC" without quotes if the script is valid and "WA" otherwise.

Example

input Copy

```
8
Header
Cell
Row
Table
EndTable
EndRow
EndCell
EndHeader
```

output Copy

```
ACC
```

Note

$Validscript$:

Header

Row

EndRow

Cell

EndCell

Table

EndTable

Cell

Row

EndRow

EndCell

EndHeader

$Invalidscript$:

Header

Row

EndRow

Cell

EndCell

Table

EndTable

Cell

Row

EndCell

EndRow

EndHeader

ICPC Assiut University Training - Juniors Phase 1 Sheets-2022

Public

Participant

→ Group Contests

- Juniors Phase 1 Practice #5 (Bitmask, Bitset, Bits)
- Juniors Phase 1 Practice #4 (Binary search , Two pointers)
- Juniors Phase 1 Practice #3 (STL 2)
- Juniors Phase 1 Practice #2 (STL 1)
- Juniors Phase 1 Practice #1 (Prefix sum , Frequency Array)

Juniors Phase 1 Practice #2 (STL 1)

Finished

Practice

→ 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.

→ Virtual participation

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

→ Submit?

Language: GNU G++20 13.2 (64 bit, win

Choose file: Choose File No file chosen

Submit

→ Last submissions

Submission	Time	Verdict
284698395	Oct/06/2024 23:26	Accepted
284698211	Oct/06/2024 23:24	Wrong answer on test 38
284698046	Oct/06/2024 23:21	Wrong answer on test 31
284697132	Oct/06/2024 23:08	Wrong answer on test 31
284694539	Oct/06/2024 22:37	Wrong answer on test 31