

Videh likes to say hi to the people. There are N students in his class. Say hi to everybody.

Input

First line of input contains a single integer N denoting the number of students.

Next N lines contain name of students 1 name per line.

Output

For each student, print a single line containing text hi followed by a space and then name of student. Make sure to print 1 answer per line. You should print output on stdout stream. Stderr would be ignored and you can use it for local debugging as per your need. Don't print anything other than the required answer on stdout.

Constraint

$1 \leq N \leq 5$

$3 \leq \text{Length of student name} \leq 100 (10^2)$

Example**Input:**

2

Ram

Pooja

Output:

hi Ram

hi Pooja