

Question 1

An example is given in the lab

Question 2

Input

Akwertybjk

Output

NO

Input

acegijkpmz

Output

YES

Input

acegiJkpmz

Output

YES

Question 3

Input

4

1 2 3 4

5 6 7 8

9 10 11 12

13 14 15 16

3.2 4 1.5 3

1.1 2 5.6 9

3.2 1 1 0

1 2 3 4

Output NOTHING

Input

3

7 2 3

4 9.5 2

1 1 7

1 2 3

2 1 2

1 1 2

Output

Diag(A) is greater than or equal rows of B