#### Description

In **function.h** we define a class called **Block**. If a Block is rotation invariant, it is always displayed in the same form no matter how many times it is rotated. For example,

@OOX

OOXX

XXXX

XXXX

is not rotation invariant, but

@00@

0000

0000

@00@

is rotation invariant.

Your task is to complete the implementation of **clockwise90()**, which rotates the pattern by 90 degrees clockwise, first. Then **invariant()** to check if the input Block is rotation invariant or not.

The following is the format of invariant() and clockwise(), respectively.

friend bool invariant(const Block& a);

#### void clockwise90();

You need to implement these functions in function.cpp (main.cpp and function.h are provided in10635).

NOTICE: If you get Judge Error, you may change the compile setting to c++11 while submitting your code.

### Input

The input will be given in main.cpp

#### Output

The output will be generated by main.cpp

## Sample Input

(Please refer to main.cpp in 10635)



# Sample Output

INVARIANT VARIANT

