## **PUT TRINOMO**

Given a m  $^{\star}$  n chess board , Find out minimum no of places to be covered to make it impossible to put a L shaped trinomo on it.

eg. In 2  $^{\star}$  2 chess board if you cover any 2 cells , It will be impossible to put a L shaped trinomo on it

1<=n<=10^8

1<=m<=10^8

A trinomo is a L shaped object.

where \* represents a cell.

## Input

T : no of test cases (T <= 5000)

Next T lines:

every line contain m, n

## **Output**

no of cells to be covered.

## **Example**

Input:

22

**Output:** 

2