## Student Chains

## Problem Statement

There are n students, standing in a line, adjacent to each other, holding hands and forming a chain. You have to remove $k$ students from the line, so that you can form a chain of students of any length between 1 and $n$. Find the smallest $k$ with which this can be done.

Note:

1. The first and last students in the line are not holding their hands. Thus the chain is not circular.
2. Any one student, can link two chains of arbitrary length.

## Input

The first line of input contains an integer $T$, denoting the no of test cases. Next T lines contain an integer n , denoting the number of students in the chain.

## Output

For each test case, print a line denoting the required output.

## Constraints

$1<=T<=50$
$1<=\mathrm{n}<=10^{\wedge} 10$

## Sample Input

1
6

## Sample Output

1

## Explanation

Take one student from the chain so that, you will have three chains of length 1,2 , and 3 . With these three student chains, you can form chains of any length from 1 to 6.

