## Sir and Chess1

After a lot of practice throughout the day, Sir jadeja is tired now and he is going to play chess for refreshment. While playing chess, a problem came into his mind. He wants to know the total numbers of ways a king can be placed on the chess board so that it cannot be attacked by the two knights already placed on the board. Help Sir jadeja in solving the problem.

Input--
The first line of the input contains integer T denoting the number of test cases.First line of each test case contains an integer N denoting the size of board. Second line contains four integers $\mathrm{x} 1, \mathrm{y} 1, \mathrm{x} 2, \mathrm{y} 2$ seperated by spaces denoting the position of the two knights. $\mathrm{x} 1, \mathrm{y} 1$ is the position of the first knight and $\mathrm{x} 2, \mathrm{y} 2$ is the position of the second.

Chess board will be of size $N \times N$. Assume top left position as 1,1 and bottom right position as N,N. A position $x, y$ denotes block on $x$ th row and yth column.

## Output--

For each test case print the answer of the problem.
Constraints--
$1<=\mathrm{T}<=100$
$6<=\mathrm{N}<=10000$

Note---

1. There will be only 3 pieces on the board -2 knights and 1 king.
2. The king cannot occupy the positions already occupied by the knights.

Example---
Input:
3
8
3356
6
1166
6
1153
Output:
46
30
27

