Contest Code: SNCK1A21 **Problem Code:** RRR

Read problem statements in Mandarin Chinese, Russian, and Vietnamese as well.

A round-robin tournament is being held in Chefland among N teams numbered $1, 2, \ldots, N$. Every team play with all other teams $\mathbf{exactly}$ once. All games have only two possible results - win or loss. A win yields 2 points to the winning team while a loss yields no points. What is the maximum number of points a team finishing at the K^{th} position can score?

$\mathbf{Note:}$ If two teams have the same points then the team with the higher team number achieves the better rank.

Input Format

- First line will contain T, number of testcases. Then the testcases follow.
- Each testcase contains a single line of input, two space-separated integers N, K.

Output Format

For each testcase, output in a single line an integer - the maximum points the team ranked K in the round-robin tournament can score.

Constraints

- $1 \leq T \leq 10^5$
- $1 \leq K \leq N \leq 10^9$

Sample Input 1

```
3
3 3
4 1
7 4
```

Sample Output 1

```
2
6
8
```

Explanation

Test Case 1: There are 3 teams in the tournament. The maximum score will be achieved by the team coming 3^{rd} when all teams win 1 match and lose the other one. Hence the maximum possible score will be $2(2 \cdot 1)$ points.

Test Case 2: There are 4 teams in the tournament. The maximum score will be achieved by the team coming 1^{st} when they beat all teams in the tournament. Hence the maximum possible score will be $6(2 \cdot 3)$ points.


```
1  # cook your dish here
2
```