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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  $1, 2, \dots, N$ . Every team play with all other teams **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?

**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.

PYTH 3.6 (Python 3.6)



Code gets autosaved every second



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

0:0

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