

Enough of GoT

Given two integers N and P you need to find the sum of all positive integers less than or equal to N which have no divisor smaller than or equal to P apart from 1.

Input

The first contains one integer T - denoting the number of test cases.
T lines follow each containing two space separated integer N and P.

Output

For each test case output the required sum in a new line.

Constraints:

$T \leq 10$

$2 \leq P \leq N \leq 2,000,000,000$

Sample Input:

```
4
11 7
10 10
4 2
7 2
```

Sample Output:

```
11
0
3
15
```