## Problem E. Garbage Disposal

Input file:
Output file:
Time limit:
Memory limit:
standard input
standard output
1 second
256 megabytes

There are $10^{9}$ types of garbage and $10^{9}$ types of garbage bins in your country. You are only allowed to dispose garbage of type $x$ into a garbage bin of type $y$ if $\operatorname{gcd}(x, y)=1$, where $\operatorname{gcd}(x, y)$ denotes the greatest common divisor (GCD) of integers $x$ and $y$.
In your neighborhood, only garbage of type $L \leq x \leq R$ ever occurs, and there are only garbage bins of types $L \leq y \leq R$ available. To avoid overflowing the bins, you want to throw each piece into distinct bin. Given $L$ and $R$, find a valid distribution or report that it does not exist.

## Input

Each test contains multiple test cases. The first line contains the number of test cases $t\left(1 \leq t \leq 10^{5}\right)$. Description of the test cases follows.

The first line of each test case contains two integers $L$ and $R\left(1 \leq L \leq R \leq 10^{9}\right)$.
It is guaranteed that the sum of $R-L+1$ over all test cases does not exceed $10^{5}$.

## Output

For each test case, if there is no valid distribution print -1 .
Otherwise, output $R-L+1$ distinct integers $y_{L}, y_{L+1}, \ldots, y_{R}\left(L \leq y_{i} \leq R\right)$, such that $\operatorname{gcd}\left(y_{i}, i\right)=1$ for every $i$ from $L$ to $R$.

If there are multiple solutions, print any.

## Example

|  | standard input | standard output |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| 3 |  | 2 | 1 | 4 | 5 | 3 |
| 1 | 5 | 11 | 10 | 13 | 12 |  |
| 10 | 13 | -1 |  |  |  |  |
| 100 | 100 |  |  |  |  |  |

## Note

In the first test case, $\operatorname{gcd}(1,1)=\operatorname{gcd}(2,3)=\operatorname{gcd}(3,4)=\operatorname{gcd}(4,5)=\operatorname{gcd}(5,2)=1$.
In the second test case, $\operatorname{gcd}(10,13)=\operatorname{gcd}(11,10)=\operatorname{gcd}(12,11)=\operatorname{gcd}(13,12)=1$.
In the third test case, the only possible assignment is $y_{100}=100$, but $\operatorname{gcd}(100,100)=100 \neq 1$.

