## Spiral

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## Input

There is unknown number of tests. Each of them consists of one line in which appear two integers: $\mathbf{n}\left(0<n<=10^{6}\right.$; $n$ always odd) - size of the square matrix and $\mathbf{m}\left(0<m<=n^{2}\right)$ - the number of the choosen cell.

## Output

For each test print index of the row and index of the column of the choosen cell which is determined by $\mathbf{m}$.

## Example

Input:
728
513
11
51
55
39
Output:
74
51
11
33
22
33

