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## Search Stones

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

There is a stone bridge connecting India to Bangladesh. First stone starting from Bangladesh is having 1 inscribed on it, and last stone is on Indian side. Each subsequent stone has two consecutive numbers on it except the last stone which may have one or two numbers inscribed on it depending on value of  $N$ . Stones may be aligned as : 1, (2, 3), (4, 5), (6, 7) ...  $N$ .

You are given a number  $N$  representing the last number on the last stone; and a number  $X$ . The task is to find the minimum number of jumps you need from either Bangladeshi side or *Indian* side to reach the stone that has  $X$  inscribed on it.

### Input

There will be single line containing two positive integers  $N$  ( $1 \leq N \leq 10^5$ ) and  $X$  ( $1 \leq X \leq N$ ).

### Output

Print the minimum number of jumps required to reach the stone having  $X$  inscribed on it.

### Examples

standard input	standard output
10 3	1
5 4	0

### Note

Here in first example the stones are sorted as: 1,(2,3),(4,5),(6,7),(8,9),10

The number 3 is written on the second stone. So from Bangladeshi side in just 1 step we can go to the second stone.