440. K-th Smallest in Lexicographical Order

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QuestionEditorial Solution

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- Total Accepted: 1425
 Total Submissions: 7020
 - Difficulty: Hard
 - Contributors: **Stomach_ache**

Given integers n and k, find the lexicographically k-th smallest integer in the range from 1 to n.

Note: $1 \le k \le n \le 10^9$.

Example:

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```
Input:
n: 13     k: 2

Output:
10

Explanation:
The lexicographical order is [1, 10, 11, 12, 13, 2, 3, 4, 5, 6, 7, 8, 9], so the second smallest number is 10.
```

```
= k-1
           cur = cur*10;
     }
  }
     return cur;
}
public static int calculateSteps(int n,int n1,int n2)
{
     int steps = 0;
     while(n1<=n)</pre>
     {
           steps += Math.min(n+1, n2) - n1;
           n1*=10;
           n2*=10;
     return steps;
}
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  10
```