

6151. Count Special Integers

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We call a positive integer **special** if all of its digits are **distinct**.

Given a **positive** integer n , return the number of special integers that belong to the interval $[1, n]$.

Example 1:

Input: $n = 20$
Output: 19
Explanation: All the integers from 1 to 20, except 11, are special. Thus, there are 19 special integers.

Example 2:

Input: $n = 5$
Output: 5
Explanation: All the integers from 1 to 5 are special.

Example 3:

Input: $n = 135$
Output: 110
Explanation: There are 110 integers from 1 to 135 that are special. Some of the integers that are not special are: 22, 114, and 131.

User Accepted:	0
User Tried:	0
Total Accepted:	0
Total Submissions:	0
Difficulty:	Hard

Constraints:

- $1 \leq n \leq 2 * 10^9$

JavaScript

```
1 const countSpecialNumbers = (N) => countNumberWithoutRepeatedDigit(N);
2
3 let res, n;
4 const countNumberWithoutRepeatedDigit = (N) => {
5   n = N;
6   res = 0;
7   dfs(0, 1023);
8   return res - 1;
9 };
10
11 const checkIthBit = (x, i) => x & (1 << i);
12
13 const dfs = (cur, rem) => {
14   if (cur > n) return;
15   res++;
16   for (let i = cur == 0 ? 1 : 0; i < 10; i++) {
17     if (checkIthBit(rem, i)) {
18       dfs(cur * 10 + i, rem ^ (1 << i))
19     }
20   }
21 };
```

☐ Custom Testcase

Use Example Testcases

Run

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