## 2802. Find The K-th Lucky Number Premium Medium ♥ Topics 🖫 Companies 🗘 Hint We know that 4 and 7 are lucky digits. Also, a number is called lucky if it contains only lucky digits. You are given an integer k, return the kth lucky number represented as a string. Example 1: Input: k = 4Output: "47" Explanation: The first lucky number is 4, the second one is 7, the third one is 44 and the fourth one is 47. Example 2: **Input:** k = 10 Output: "477" Explanation: Here are lucky numbers sorted in increasing order: 4, 7, 44, 47, 74, 77, 444, 447, 474, 477. So the 10<sup>th</sup> lucky number is 477. Example 3: **Input:** k = 1000 Output: "777747447" Explanation: It can be shown that the 1000<sup>th</sup> lucky number is 777747447. Constraints: • $1 \le k \le 10^9$ Seen this question in a real interview before? 1/5 Yes No Accepted 5.7K Submissions 7.4K Acceptance Rate 76.8% ♥ Topics Math String Bit Manipulation **Companies** 6 months ago Amazon 2 O Hint 1 The number of lucky numbers with **exactly** n digits is equal to $2^n$ . O Hint 2 We can obtain how many digits the kth lucky number has. O Hint 3 Imagine we know that kth lucky number has c digits. Then calculate how many numbers with c digits exist before the kth lucky number. O Hint 4 Imagine the number from the previous hint is x. Now look at the binary representation of x and add some leading zero to make its length equal to x. O Hint 5 Replace 0 and 1 with 4 and 7 in the number you've obtained from the previous hint. Discussion (9)

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