# Weekly Contest - 5

pop from stack

push digit into stack, k-;

while (kno and I stack empty and stack (top) > digit)

for (digit : number)

# 402. Remove K Digits Medium ○ Topics △ Companies Given string num representing a non-negative integer num, and an integer k, return the smallest possible integer after removing k digits from num. Example 1: Input: num = "1432219", k = 3 Output: "1219" Explanation: Remove the three digits 4, 3, and 2 to form the new number 1219 which is the smallest. Example 2: Input: num = "10200", k = 1 Output: "200" Explanation: Remove the leading 1 and the number is 200. Note that the output must not contain leading zeroes. Example 3:



# 403. Frog Jump

**Input:** num = "10", k = 2

nothing which is 0.

A frog is crossing a river. The river is divided into some number of units, and at each unit, there may or

may not exist a stone. The frog can jump on a stone, but it must not jump into the water.

Given a list of stones positions (in units) in sorted ascending order, determine if the frog can cross

Explanation: Remove all the digits from the number and it is left with

the river by landing on the last stone. Initially, the frog is on the first stone and assumes the first jump must be 1 unit.

If the frog's last jump was k units, its next jump must be either k-1, k, or k+1 units. The frog can only jump in the forward direction.

### Example 1:

**Input:** stones = [0,1,3,5,6,8,12,17]

Output: true

**Explanation:** The frog can jump to the last stone by jumping 1 unit to the 2nd stone, then 2 units to the 3rd stone, then 2 units to the 4th stone, then 3 units to the 6th stone, 4 units to the 7th stone, and 5 units to the 8th stone.

### Example 2:

Input: stones = [0,1,2,3,4,8,9,11]
Output: false

**Explanation:** There is no way to jump to the last stone as the gap between the 5th and 6th stone is too large.



1) k-1 can not be <0 as the freq can only jump forward

2) stitk ordlik+1 = last index → Return frame

strus [1] always 1



## 401. Binary Watch

Easy 🛇 Topics 🖰 Companies 🗘 Hint

A binary watch has 4 LEDs on the top to represent the hours (0-11), and 6 LEDs on the bottom to represent the minutes (0-59). Each LED represents a zero or one, with the least significant bit on the right.

For example, the below binary watch reads "4:51".



Given an integer turned0n which represents the number of LEDs that are currently on (ignoring the PM), return all possible times the watch could represent. You may return the answer in any order.

The hour must not contain a leading zero.

• For example, "01:00" is not valid. It should be "1:00".

The minute must consist of two digits and may contain a leading zero.

• For example, "10:2" is not valid. It should be "10:02".

# Try every possible time combination

Check if bit count of Hour +
bit count of Linute
= turned on