943. Find the Shortest Superstring

Description

Given an array of strings `words` , return *the smallest string that contains each string in* `words` *as a substring* . If there are multiple valid strings of the smallest length, return **any of them** .

You may assume that no string in `words` is a substring of another string in `words` .

Example 1:

```
Input: words = ["alex","loves","leetcode"]
Output: "alexlovesleetcode"
Explanation: All permutations of "alex","loves","leetcode" would also be accepted.
```

Example 2:

```
Input: words = ["catg","ctaagt","gcta","ttca","atgcatc"]
Output: "gctaagttcatgcatc"
```

Constraints:

- `1 <= words.length <= 12`
- `1 <= words[i].length <= 20`
- `words[i]` consists of lowercase English letters.
- All the strings of `words` are **unique** .