The Chairs Game

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Given a list of people's names (strings) of length N. You are required to print all the possible ways we can let those people sit next to each other such that no 2 people sitting next to each other having the same letter at the end of the first person's name and at the beginning of the second person's name (i.e john then natalia) (natalia then john is fine) You are required to answer the question above using brute force implemented using recursion.

Input Format

- The first line will contain N.
- The next N lines will contain the people's names.

Constraints

- 1 <= N <= 7

Output Format

- Print the number of possible ways we can let those people sit next to each other.

Sample Input 0

```
2
AB
B
```

Sample Output 0

```
1
```

Explanation 0

{B AB}

Sample Input 1

```
3
ABC
ABD
DEF
```

Sample Output 1

```
4
```

Explanation 1

{ ABC DEF ABD }

{ ABD ABC DEF}

{ DEF ABC ABD }

{ DEF ABD ABC }

C++20

```cpp
#include <cmath>
#include <cstdio>
#include <vector>
#include <iostream>
#include <algorithm>
using namespace std;


int main() {
    /* Enter your code here. Read input from STDIN. Print output to STDOUT */
    return 0;
}

```

Line: 1 Col: 1

⬆ Upload Code as File   ☐ Test against custom input

Run Code   Submit Code