

Problem B

The ACME company is building a factory complex in your county which has k cities. The factory complex is split into n part-building factories and m part-assembling factories. Each factory must be built in a different city of your county because of pollution regulations, and there must be a direct road between each building factory and each assembling factory.

You will be given a `String[]` `county`. Character `j` of element `i` of `county` will be 'Y' if there is a direct road between city `i` and city `j`, and 'N' if there isn't. All roads are bidirectional. Return the number of ways the factory complex can be built in this county. Two factory complexes are different if the set of cities containing part-building factories is different in one than the other, or the set of cities containing part-assembling factories is different in one than the other

- n and m will each be between 1 and 8, inclusive.
- `county` will have between 1 and 30 elements, inclusive.
- Each element of `county` will have exactly k characters, where k is the number of elements in `county`.
- Each character in each element of `county` will be either 'Y' or 'N'.
- Character `i` of element `i` will always be 'N'.
- For all i and j , where $i \neq j$, character `i` of element `j` of `county` will be equal to character `j` of element `i`.

See examples for input/output format.

B.IN

2

2
1
3
NYY
YNY
YYN
2
2
6
NYYYYN
YNYNY
YYNYYY
YYYNYN
YNYNY
NYYNYN

B.OUT
3
32