PROBLEM SETS

Q1: Count the Sequence problem (B-S)

Count how many times a certain set of letters appears in a particular order. Output the number of times the set of letters appears as a subsequence, not necessarily contiguous, of the input string.

Sample:

Original string	# of sequence
CCOW	2 C_OW _COW
COOWWW	6 CO_W__ CO__W_ CO___W C_OW__ C_O_W_ C_O__W

Q2: Censoring problem(B-S)

Remove unwanted string.

Considering that this string can be as long as over several Gigabytes. You should keep in mind that constantly moving string (chunks of bytes) is too time-consuming.

Sample input:

```
whatthemomomoooofunmmooooday
moo
```

Answer:

```
Whatthefunday
```

Q3: HopScotch problem(B-S)

Take a grid N x M. You start at (0,0). Goal is to jump to (N-1, M-1).

Rule:

1) Jump to a square of a different color,

2) Next grid must be at (>r , > c) where r and c are the current row and column.

Find the number different possible ways (sequences) of valid jumps that will take them from the top-left grid to the bottom-right grid

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Sample:
4 4
RRRR
RRBR
RBBR
RRRR
```

Answer:

```
3
```

TEST DATA LINKS

Q1: Counting Sequence ...

Q2: Censoring Test Data ...

Q3: HopScotch Test Data ...