

# CREATIVE PROBLEM SOLVING

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## FINDING WORD COMBINATIONS

**CONCEPTS:** Loop, String, 2D Array, Recursion

**LEVEL:** Medium

**Wordament** is a word finding game available on Windows as well as Android platform. Goal of the game is to find words by swiping fingers starting from any letter and finding 3 or more letter words.

### PROBLEM STATEMENT

Solve sub problem of wordament by generating all possible combinations of 3 or more letter words from the GAME. Ignore the fact, if the found word is dictionary word or not.

#### Input

2-D Array of characters of size 4x4

#### Output

Every single line should have contain a word combination of 3-letters to 16-letters, created using swipe operation as if array is available on a touch screen display.

#### Sample Input

S T N T  
P O H I  
X R A C  
K Y N S

#### Sample Output

STN  
STNT  
STNTI  
STNTIH  
STNTIHO  
....

