Employee Table:

+-------------+------------+

| employee\_id | team\_id |

+-------------+------------+

| 1 | 8 |

| 2 | 8 |

| 3 | 8 |

| 4 | 7 |

| 5 | 9 |

| 6 | 9 |

+-------------+------------+

Result table:

+-------------+------------+

| employee\_id | team\_size |

+-------------+------------+

| 1 | 3 |

| 2 | 3 |

| 3 | 3 |

| 4 | 1 |

| 5 | 2 |

| 6 | 2 |

+-------------+------------+

Employees with Id 1,2,3 are part of a team with team\_id = 8.

Employees with Id 4 is part of a team with team\_id = 7.

Employees with Id 5,6 are part of a team with team\_id = 9.

select t1.employee\_id, t2.team\_size

from Employee as t1

inner join (select team\_id, count(1) as team\_size

from Employee

group by team\_id) as t2

on t1.team\_id = t2.team\_id

WordSquare

abcd

bnrt

crt

dt

**import** java.util.Arrays;

**import** java.util.List;

**public** **class** WordSquare {

**public** **static** **void** main(String []args) {

String[] s= {"abcd","bnrta","crm","dt"};

List<String> words = Arrays.*asList*(s);

WordSquare word = **new** WordSquare();

System.***out***.println(word.validSquare(words));

}

**private** **boolean** validSquare(List<String> words) {

**for**(**int** i = 0;i < words.size(); i++) {

String cur = words.get(i);

**for**(**int** j = 0; j < cur.length();j++) {

**if**(words.size()<=j) **return** **false**;

String tmp = words.get(j);

**if**(tmp.length() < i + 1 || tmp.charAt(i) != cur.charAt(j)) **return** **false**;

}

}

**return** **true**;

}

}

REVERSE VOWELS IN THE STRING

**import** java.util.Arrays;

**import** java.util.HashSet;

**import** java.util.Set;

**public** **class** ReverseVowels {

**public** **static** **void** main(String[] args) {

String s="hello";

ReverseVowels reverse = **new** ReverseVowels();

**if**(s!= **null** || s.length()!=0) {

System.***out***.println(reverse.reverseString(s));

}

}

**private** String reverseString(String s) {

Set<Character> vowels = **new** HashSet<>(Arrays.*asList*('a','e','i','o','u','A','E','I','O','U'));

**char**[] charArray= s.toCharArray();

**int** left=0,right=charArray.length-1;

**while**(left < right) {

**if**(!vowels.contains(charArray[left])) {

left++;

}**else** **if**(!vowels.contains(charArray[right])) {

right--;

}**else** {

**char** temp= charArray[left];

charArray[left]=charArray[right];

charArray[right]= temp;

left++;

right--;

}

}

**return** **new** String(charArray);

}

}