Assignment3-2017555012

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## Q1: Write a function that finds a prime number(s) given a set of numbers. Your function also provides prime factors of non-prime numbers.

## [1] 241 50 39 39 26

## [1] "Non-Prime Numbers:"  
## [1] 50 2 5 5  
## [1] 39 3 13  
## [1] 39 3 13  
## [1] 26 2 13  
## [[1]]  
## [1] "Prime numbers:" "241"

| x |
| --- |
| Prime numbers: |
| 241 |

## Q2: Write a function that finds the letter numbers of all words in a given text and sorts the text according to those numbers from words with few letters to words with many letters. Sort the words containing the same number of letters alphabetically.

## # A tibble: 6 x 1  
## word   
## <chr>   
## 1 Hop over the fence and plunge in.   
## 2 Hats are worn to tea and not to dinner.   
## 3 Twist the valve and release hot steam.   
## 4 Two blue fish swam in the tank.   
## 5 Whitings are small fish caught in nets.   
## 6 The copper bowl shone in the sun's rays.

| x |
| --- |
| in in in in to to and and and are are hop hot not tea the the the the the two blue bowl fish fish hats nets over rays sun’s swam tank worn fence shone small steam twist valve caught copper dinner plunge release whitings |