**Siena College’s 35th Annual High School Programming Contest**

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##### March 31, 2023

###### Green Problem #6: Pangrams

Background Information: A pangram is a word or phrase that contains every letter of the alphabet at least one time. The occurrence could be an upper or lower-case character. The classic example of a pangram is the sentence “The quick brown fox jumped over the lazy dog’s back.”

Your program will be given a sequence of words. Your program will indicate that it is a pangram, otherwise it will list the missing letters.

###### Programming Problem:

Input:  A sequence of words, each separated by a space. Input may contain punctuation but this should be ignored.

Output: PANGRAM, if the sequence is a pangram otherwise output the missing letters, using uppercase, in ascending alphabetical order.

###### Example 1: Input:

######  The quick brown fox jumped over the lazy dog’s back.

######  Output:

PANGRAM

###### Example 2: Input:

######  Public junk dwarves quiz mighty fox

######  Output:

###### PANGRAM

###### Example 3: Input:

######  White shoes have missing soles

######  Output:

BCDFJKPQRUVXYZ

###### Example 4: Input:

######  Tony Civitella is a quick-thinking, experienced, business wizard behind the juggernaut company, Transfinder.

######  Output:

###### PANGRAM