**bool Idea::checkKeyWordVector( string word )**

The code is expected to be bigO(n) since we are just traversing through a linear list(and making comparisons) which is unordered.

Complexity: 3n+3 [worst case]

Notation: BigO(n)

Code:

START FUNCTION (string keyword)

IF VECSIZE == 0

Return FALSE

ELSE

FOR LOOP iteration < VECTOR SIZE

IF KEYWORD == VEC[i]

RETURN TRUE

END FOR LOOP

RETURN FALSE

END IF

bool Idea::checkContent( string word )

This function simply takes a string and uses string manipulation function which is given by the library to locate a word contained in another string.

Complexity: n + 4n [worst case]

Notation: BigO(n)

Code:

START FUNCTION (string WORD)

INITIALIZE VARIABLE size\_T found

FOUND = word.contentFind(word)

IF FOUND

RETURN TRUE

ELSE

RETURN FALSE