Specifications:

Method signature: char \* medium(char last, char \*\*\* dictionary, int \* freq)

Requires: The “last” parameter is that last character that was chosen before this round and must be a valid character. The dictionary parameter must be a pointer to an array of pointers to arrays of characters, and the freq parameter must be a pointer to an array of integers.

Effects: Returns a pointer to a character array in the dictionary, the returned character is randomly chosen from the set of character arrays in the dictionary that starts with the last parameter, unless there is a direct winning word we will choose that word, otherwise we will choose a random word in this array.

Test Cases:

-If the dictionary doesn’t contain any elements, the method medium() will return NULL because there are no characters in the dictionary to choose.

-If the dictionary contains more elements the medium() method will return a pointer to one of those elements.

-The character array will be randomly chosen from the “last” parameter, but only if it is a winning word. If there are no winning words that start with “last” parameter the returned character will be randomly chosen from the set of all character arrays in the dictionary that start with the “last: parameter.