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CSC 230
Project 1 Pseudocode
10/6/20
algorithm findMatch is
        input: number or rows,
               number of columns,
               matrix of characters,
               user entered words
        output: character matrix colored red corresponding to word matches:
        if the user entered word matches a word in the matrix in one of the eight directions
        (left, right, upward, downward, and diagonals), then it is colored in red
        for each point (i, j) in the character matrix do
                if character at point (i, j) is equal to the first character of user entered string
                         assign character at the point to first index of temp string;
                         for each direction do
                                 apply proper increment or decrement to (i, j);
                                 if the matrix word is out of bounds in that direction
                                         exit this loop and do not check for match;
                                 else
                                         save the matrix word into the temp string character by character;
                         if the user word is equal to the matrix word
                                 mark the separating matrix true (boolean type);
                if point in separating matrix is true
                         character at that point is printed in red;
                else
                         character at that point is printed in default color;
```