Documentation

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- Minutes required for each task:
    - Task A_1 = 15 minutes
    - Task A_2 = 20 minutes
    - Task A_3 = 10 minutes
- Task A_1:
    - The “howGivenManyEmotionTypeInListEmotions” function was implemented as follows:
        - A for loop through each element of the “lstEmotions” list and incremented the “nJE” variable every time I encountered the value passed throught the param.
        - Manual testing was used for this function.
        - I created a couple of emotions and added them to a list on which I tested the function.
        - The function worked as intended after the first execution.
    - The “predominantEmotion” function was implemented as follows:
        - I initialized a hash map with emotion types (.Joy, .Anger, etc.) as keys and the number of occurances as values, 0 for now.
        - I iterated through our “lstEmotions” list and for every element in that list I incremented its associated key our hash map.
        - After that I used the max function from the Collections library to get the maximum value from all the hash map elements.
        - Afterwards I iterated through all the keys of our hash map and checked if that key had a value equal to the the maximum value from the hash map, if so, then I took the emotion from the initial list (“lstEmotions”) which had that key as an emotion type and added it to our return variable (“lstEPredominant”).
        - Lastly I returned “lstEPredominant”.
        - The function worked as intended after 3 executions.

- The “eliminateAllProvidedEmotion” function was implemented as follows:
    - An emply list of Emotions was created.
    - The “lstEmotions” list was iterated and everytime an emotion that was not equal to the emotion passed as the param, it was added to the declared list of emotions.
    - Finally the list of emotions was passed to the “lstEmotions” list.
    - The function worked as intended after the first execution.

- Task A_2:
    - The test cases were designed to check if the approaches taken fullfiled their purpose by testing each scenario.
    - The tests checked the following:
        - When one emotion was predominant
        - When multiple emotions were predominant
        - When all emotions were predominant
    - All the tests contained a declared list of custom emotions:
        - The first one contained a list where only one emotion was declared twice, the others were declared only once or none at all.
        - The second one contained a list where multiple emotions were declared the same amount of times and the others less or none at all.

- Task A_3:
    - The tests were used to check if the algorithm written in the functions correctly determined when an emotion is predominant and if it detected if multiple emotions had the same amount of occurances.
    - All the test cases passed after at most 2 changes.