const input=require('readline-sync');

let theScore = 0;

let scoreOption = 0;

const newScoreKey = {};

// Refer to the online book to access detailed instructions for this project.

// URL = https://education.launchcode.org/intro-to-professional-web-dev/assignments/scrabble-scorer.html

// Code your transform function here:

function transform(oldScoreKey){

for (let key in oldScoreKey) {

for (let i=0; i<oldScoreKey[key].length; i++){

newScoreKey[oldScoreKey[key][i].toLowerCase()] =+key;

}

}

newScoreKey[' ']=0;

return newScoreKey;

}

// Code your initialPrompt function here:

function initialPrompt(){

let scoreOption = Number(input.question("Enter 0,1,2: "));

return scoreOption;

}

function scoreFunction(theWord, scoreOption){

theScore = 0;

if (scoreOption === 0){

letter = 0;

for (letter; letter < theWord.length; letter++){

for (key in newScoreKey){

if (theWord[letter] === key){

theScore = theScore + newScoreKey[key];

}

}

}

}

if (scoreOption === 1){

theScore = theWord.length;

}

if (scoreOption === 2){

let vowels = "aeiouy";

for (i=0; i<theWord.length; i++){

if (vowels.indexOf(theWord[i]) !== -1){

theScore = theScore + 3;

}else{

theScore = theScore + 1;

}

}

}

return theScore;

}

// Code your runProgram function here:

function runProgram(arr){

stopWord = 'stop';

let theWord = '';

console.log("Welcome to the Scrabble score calculator. Enter 'Stop' to quit.\n");

console.log("Which scoring algorithm would you like to use?\n");

console.log(`0 - ${arr[0][0]}: ${arr[0][1]}`);

console.log(`1 - ${arr[1][0]}: ${arr[1][1]}`);

console.log(`2 - ${arr[2][0]}: ${arr[2][1]}`);

scoreOption = initialPrompt();

if (scoreOption >2 || scoreOption <0){

scoreOption = 0;

}

console.log("Using algorithm: ", arr[scoreOption][0]);

while (theWord !== stopWord){

theWord = input.question("\nEnter a word to be scored: ").toLowerCase();

if (theWord != 'stop'){

scoreFunction(theWord, scoreOption);

console.log(`Score for '${theWord}': ${theScore}`);

}

}

}

// Here is the oldScoreKey object:

const oldScoreKey = {

1: ['A', 'E', 'I', 'O', 'U', 'L', 'N', 'R', 'S', 'T'],

2: ['D', 'G'],

3: ['B', 'C', 'M', 'P'],

4: ['F', 'H', 'V', 'W', 'Y'],

5: ['K'],

8: ['J', 'X'],

10: ['Q', 'Z']

};

// Use the transform function to create the newScoreKey object here:

transform(oldScoreKey);

// // Create your scoringAlgorithms array here:

let theWord = '';

let scoringAlgorithms = [["Scrabble", "The traditional scoring algorithm.", scoreFunction],

["Simple Score", "Each letter is worth 1 point.", scoreFunction],

["Bonus Vowels", "Vowels are 3 pts, consonants are 1 pt.", scoreFunction]];

// Call the runProgram function here:

runProgram(scoringAlgorithms);