Hangman Program

Create the following program in C#. Call it Hangman

- Create a variable quessesRemaining and set it to 6
- Create three arrays: word[a 5 letter word of your choice], guessWord [5 underscores] and badGuesses[6 empty cells]
 - o 'guessWord' will be the series of blank underscores that we use to guess the final word.
 - o 'badGuesses' stores the characters that are not in the word we are trying to guess.
- Create a message to the user to explain what they need to do I.e. type in letters to guess the word...
- Set up a loop to constantly ask the user for a letter, until *guessesRemaining* equals 0 or the *guessWord* array is equal to the *word* array.
- Create a function called LetterInWord which takes the letter that the user has typed in as a parameter and returns true or false

Within this function:

- If the user has already have already guessed that letter, tell them and ask them to enter another letter. Remember, some words may contain the same letter more than once!
- If the user has not guessed it yet, and it is in the word array, then find out where that letter is. Replace the underscore in the guessWord array with that letter
- If we have not guessed it yet, and it is not in the word array, then add it to the badGuesses array
- o Decrement guessesRemaining
- Display the contents of guessWord separated by spaces along with a sensible message
- Once we have exited out of the loop, if *guessesRemaining* equals 0 we have lost, if not we have won the game. Either way, tell the user and show the word!

Extension

• Modify your basic hangman game to include an array of ten 5 letter words. When the game starts, randomly pick one of the words to be guessed