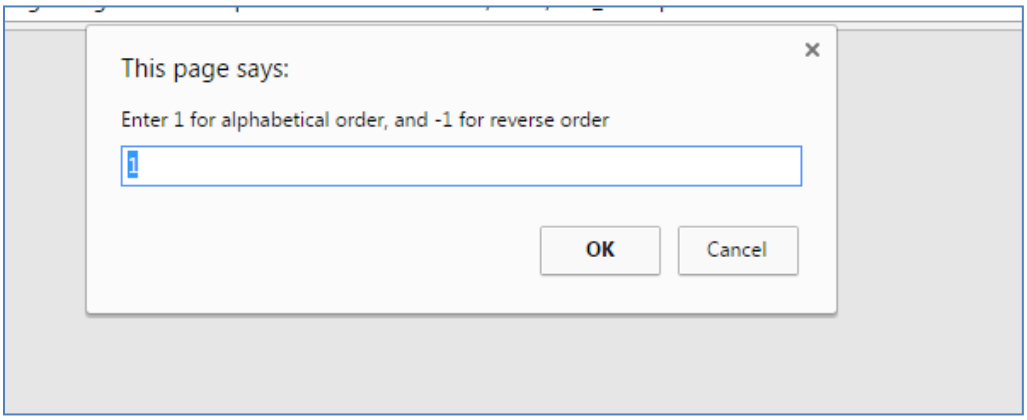
Worksheet 10

1. Create a function that upon load asks the user whether he/she would prefer if a particular list is shown in ascending or descending order.



a) You should set the default value to 1

b) Once the user clicks on the *OK* button, a list in alphabetical order should be displayed on screen:

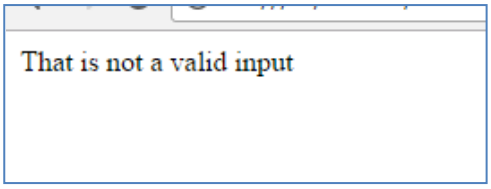
Banana
Cereal
Eggs
Milk
Potatoes

c) If -1 is inputted by the user, the list should be displayed in descending order:

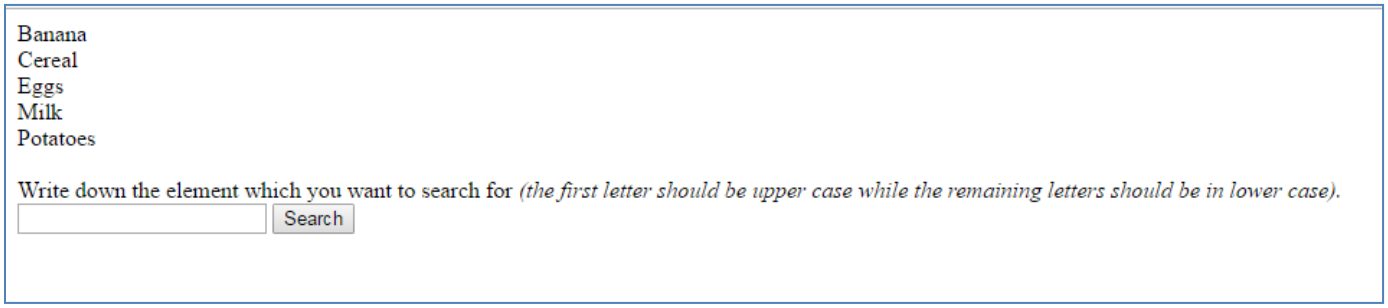
Potatoes
Milk
Eggs
Cereal
Banana

d) The given list should be saved in an array beforehand.

e) If the user enters anything but 1 or -1, an error message should be displayed instead:

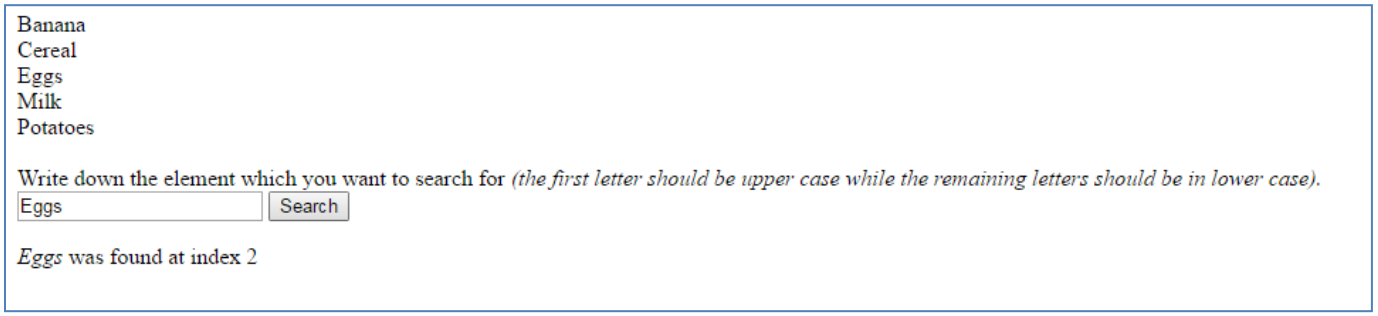


2. Add the following to the above web page:



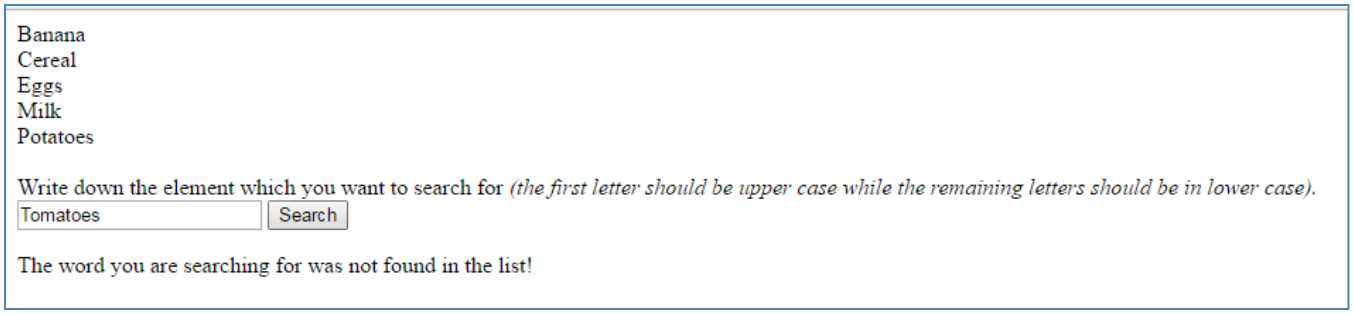
a) The user is instructed to enter a word which has the first letter an upper case letter while the rest should be in lower case.

b) Once the user clicks on the *Search* button, a function should extract the user input and traverse the array to check whether the user input matches with any of the array items:

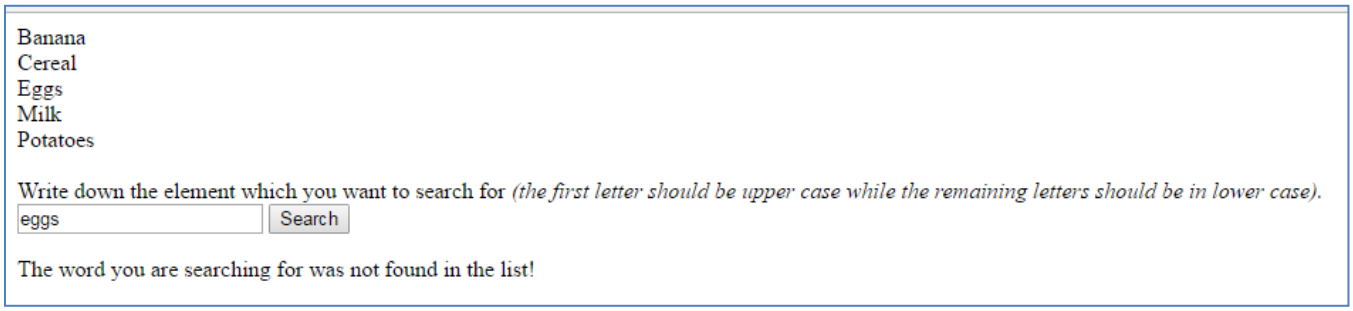


c) If the word is found, user feedback should be given to inform the user the index in which the word was found.

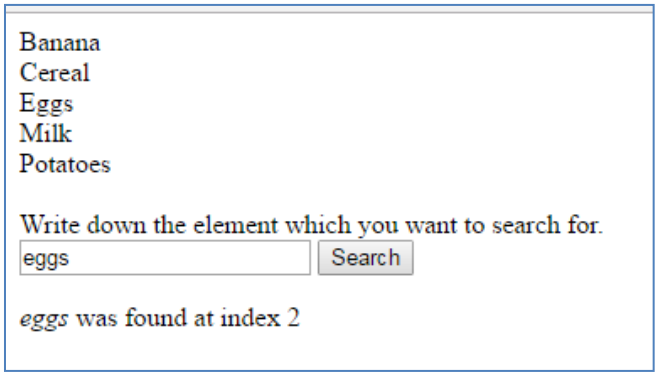
d) On the other hand, if the word is not found in the array, the following message should be displayed:



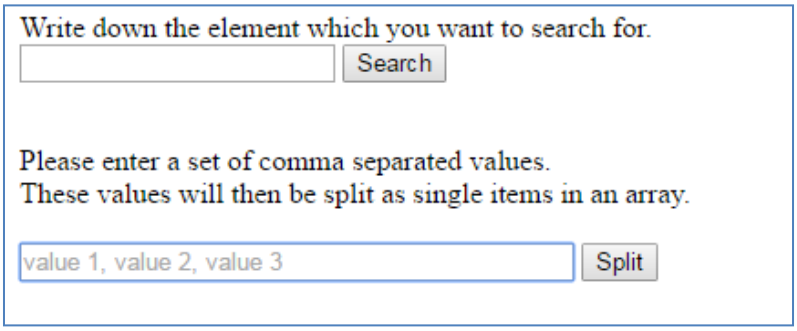
e) At the moment, the function is case sensitive to the entered word:



f) Change the functionality to allow users to search for a word using any case they like:



3. Edit this web page to add the following:



a) The user is required to enter a number of different values in the text field.

b) It is important that these values are separated via commas.

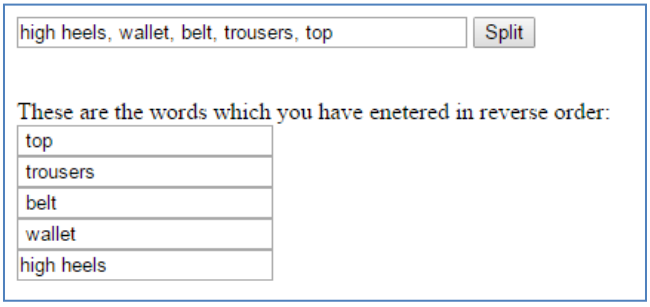
c) The *Split* button needs to call a function which simply extracts the string entered in the text field and pass it as a parameter to another function, *splitAndReverseTxt(param1)* , which you are to create yourself.

d) *splitAndReverseTxt(param1)* needs to take the string being passed as a parameter and split each word as a separate item in an array.

e) Once the split is done, the words should be displayed in a reverse order:

- Firstly, you should show a string showing all the values at once.
  HINT: You should use the *join* built-in method:

- Once the user closes the alert window, a set of text fields need to be displayed:

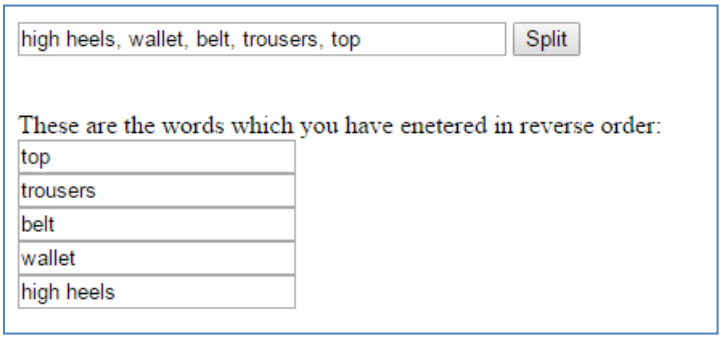


- The amount of generated text fields should be depending on the amount of items in the generated array.

- Each text field should be filled with the words inserted by the user, in reverse order.

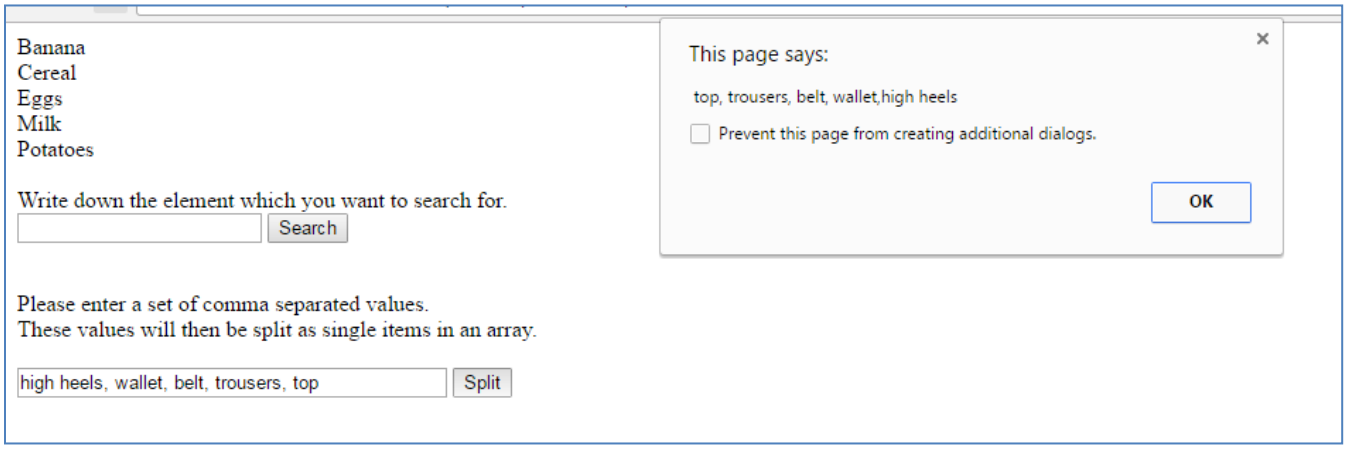
f) As you may have noticed in the previous screen shot, if the user wrote a white space between the word and comma. As a result, these white spaces became part of the words.

You are now required to remove these white spaces when the user inserts such an input:

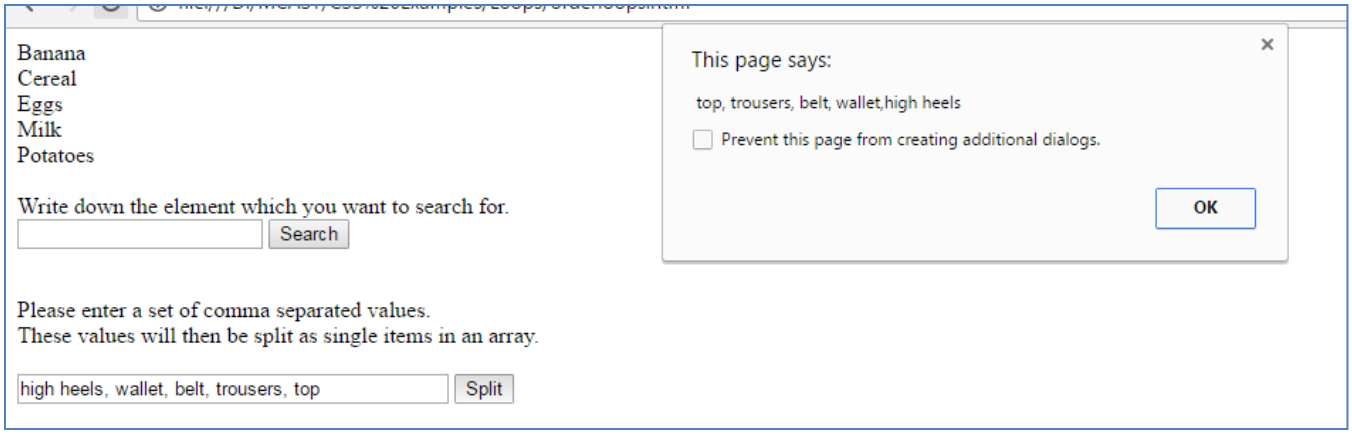


g) You need to ensure that these change has been made in the array as well. Therefore, after these text fields are generated, you are to show another alert which joins the array items together to form one string (now without white spaces showing before the item).

First alert:



Second alert:



4. Create a webpage which displays the first 10 multiples of the number 9:

   a) The page should load as follows:

   b) Once the user clicks on the *Multiples of* 9 button, the first 10 multiples of 9 should be displayed below the button: