

Javascript Arrays and Web Forms

1-) Create an array with 30 items, each of which is a random number between [1, 20]. Write a function that takes an array and returns its average, maximum value, minimum value, the number(s) appearing most often, and frequency table.

Original Array : [6 , 15 , 9 , 1 , 8 , 14 , 13 , 1 , 19 , 12 , 5 , 17 , 20 , 19 , 18 , 20 , 5 , 7 , 10 , 17 , 15 , 17 , 20 , 18 , 1 , 6 , 5 , 3 , 9 , 9]
Frequencies : [1:3 2:0 3:1 4:0 5:3 6:2 7:1 8:1 9:3 10:1 11:0 12:1 13:1 14:1 15:2 16:0 17:3 18:2 19:2 20:3]
Average : 11.300
Min : 1
Max : 20
Most Frequent Items : [1 , 5 , 9 , 17 , 20]

2-) Write a function that takes an array as input and returns the top 2 values of the array without using any extra array. First, create an array with 10 items in the range of [1,20], then call the function that returns two values.

Array : 5 7 8 12 10 5 12 9 11 12

Top 2 : 12 11

3-) Write a javascript form application to calculate the price of a menu. In the menu, there are three categories: Appetizer, Main Course and Wine. The appetizers and their prices are “Scotch Broth – 5 TL” and “Potato Salad – 6 TL”. Main courses are “Roasted Lamb – 10 TL”, “Fish and Chips – 8 TL”, and the wine is optional and its price is 10 TL. Based on the user selection, your program calculates the price of the selected menu, and display the result in the textarea. **Only the selected menu items will be displayed.**

In listboxes, the first item is “None”, that is, user does not choose any item in that category. Do not display this category in textarea. The display format is shown in the following figure.

MENU	
Appetizer:	None ▾
Main Course:	Roasted Lamb ▾
Wine:	<input checked="" type="checkbox"/>
<input type="button" value="Price"/>	

---- MENU ----
Main Course :
Roasted Lamb 10 TL

Wine 10 TL

TOTAL = 20 TL

MENU	
Appetizer:	None ▾
Main Course:	None ▾
Wine:	<input type="checkbox"/>
<input type="button" value="Price"/>	

---- MENU ----
Nothing selected.