10/1/14

**Exercises**

**Arrays**

1)

var friends = [

'Moe',

'Larry',

'Curly',

'Jane',

'Emma',

'Elizabeth',

'Elinor',

'Mary',

'Darcy',

'Grey',

'Lydia',

'Harriet'

];

undefined

var myLastFriend=friends[11];

undefined

myLastFriend

"Harriet"

friends.push("Melody");

13

friends

["Moe", "Larry", "Curly", "Jane", "Emma", "Elizabeth", "Elinor", "Mary", "Darcy", "Grey", "Lydia", "Harriet", "Melody"]

friends.unshift("Tim");

14

friends

["Tim", "Moe", "Larry", "Curly", "Jane", "Emma", "Elizabeth", "Elinor", "Mary", "Darcy", "Grey", "Lydia", "Harriet", "Melody"]

friends[6]="Liz";

"Liz"

friends

["Tim", "Moe", "Larry", "Curly", "Jane", "Emma", "Liz", "Elinor", "Mary", "Darcy", "Grey", "Lydia", "Harriet", "Melody"]

2)

friends.sort();

["Curly", "Darcy", "Elinor", "Emma", "Grey", "Harriet", "Jane", "Larry", "Liz", "Lydia", "Mary", "Melody", "Moe", "Tim"]

3)

var ages = [83, 53, 37, 29, 60, 30, 66, 19, 59, 41, 9, 64, 19, 80, 24, 53, 70, 1, 53, 40, 92, 4, 71, 65, 8, 2, 51, 80, 94, 37, 80, 64, 19, 6, 14];

undefined

ages.sort(function(a,b){return a-b})

x=ages.sort(function(a,b){return a-b})

[1, 2, 4, 6, 8, 9, 14, 19, 19, 19, 24, 29, 30, 37, 37, 40, 41, 51, 53, 53, 53, 59, 60, 64, 64, 65, 66, 70, 71, 80, 80, 80, 83, 92, 94]

x.length

35

35/2

17.5

x[17]

51

x[18]

53

(x[17]+x[18])/2

52

4)

var friends = "Moe,Larry,Curly,Jane,Emma,Elizabeth,Elinor,Mary,Darcy,Grey,Lydia,Harriet";

undefined

var friendslist=friends.split(",");

undefined

friendslist

["Moe", "Larry", "Curly", "Jane", "Emma", "Elizabeth", "Elinor", "Mary", "Darcy", "Grey", "Lydia", "Harriet"]

friendslist.sort();

["Curly", "Darcy", "Elinor", "Elizabeth", "Emma", "Grey", "Harriet", "Jane", "Larry", "Lydia", "Mary", "Moe"]

friendslist

["Curly", "Darcy", "Elinor", "Elizabeth", "Emma", "Grey", "Harriet", "Jane", "Larry", "Lydia", "Mary", "Moe"]

5)

friendslist.reverse()

["Moe", "Mary", "Lydia", "Larry", "Jane", "Harriet", "Grey", "Emma", "Elizabeth", "Elinor", "Darcy", "Curly"]

6)

var myFriends = [

'Rickon',

'Meera',

'Hodor',

'Jojen',

'Osha',

'Rickard',

'Maester',

'Rodrik',

'Jory',

'Septa',

'Jon'

];

undefined

var yourFriends = [

'Bilbo',

'Boromir',

'Elrond',

'Faramir',

'Frodo',

'Gandalf',

'Legolas',

'Pippin'

];

undefined

var array3=myFriends.concat(yourFriends);

undefined

array3

["Rickon", "Meera", "Hodor", "Jojen", "Osha", "Rickard", "Maester", "Rodrik", "Jory", "Septa", "Jon", "Bilbo", "Boromir", "Elrond", "Faramir", "Frodo", "Gandalf", "Legolas", "Pippin"]

array3.sort();

["Bilbo", "Boromir", "Elrond", "Faramir", "Frodo", "Gandalf", "Hodor", "Jojen", "Jon", "Jory", "Legolas", "Maester", "Meera", "Osha", "Pippin", "Rickard", "Rickon", "Rodrik", "Septa"]

7)

var foods = [

'Popcorn',

'Potato chips',

'Shrimp',

'Chicken rice',

'Poutine',

'Tacos',

'Toast',

'French Toast',

'Crab',

'Pho',

'Lasagna',

'Brownie',

'Lobster',

'Donuts',

'Ice cream',

'Hamburger',

'Sushi',

'Chocolate',

'Pizza'

];

undefined

foods.indexOf("Shrimp");

2

foods.indexOf("Pho");

9

8)

foods.indexOf("Donuts");

13

foods.splice(13,1);

["Donuts"]

foods

["Popcorn", "Potato chips", "Shrimp", "Chicken rice", "Poutine", "Tacos", "Toast", "French Toast", "Crab", "Pho", "Lasagna", "Brownie", "Lobster", "Ice cream", "Hamburger", "Sushi", "Chocolate", "Pizza"]

foods["Donuts"];

undefined

foods.indexOf("Donuts");

-1

9)

foods["Popcorn"]

undefined

foods[0]

"Popcorn"

var foods = [

'Popcorn',

'Potato chips',

'Shrimp',

'Chicken rice',

'Poutine',

'Tacos',

'Toast',

'French Toast',

'Crab',

'Pho',

'Lasagna',

'Brownie',

'Lobster',

'Donuts',

'Ice cream',

'Hamburger',

'Sushi',

'Chocolate',

'Pizza'

];

undefined

f=foods

["Popcorn", "Potato chips", "Shrimp", "Chicken rice", "Poutine", "Tacos", "Toast", "French Toast", "Crab", "Pho", "Lasagna", "Brownie", "Lobster", "Donuts", "Ice cream", "Hamburger", "Sushi", "Chocolate", "Pizza"]

fav=f.splice(4,5);

["Poutine", "Tacos", "Toast", "French Toast", "Crab"]

fav=f.splice(4,6);

["Pho", "Lasagna", "Brownie", "Lobster", "Donuts", "Ice cream"]

10)

var names=[["Moe",18],["Larry",19],["Curly",20],["Jane",20],["Emma",21],["Elizabeth",18],["Elinor",23],["Mary",25],["Darcy",24],["Grey",18],["Lydia",24],["Harriet",18]];

**Objects**

1)

var jd={firstName:"John", lastName:"Doe", age:36, address:"1234 Park st."};

jd

Object {firstName: "John", lastName: "Doe", age: 36, address: "1234 Park st."}

jd

Object {firstName: "John", lastName: "Doe", age: 36, address: "1234 Park st."}

jd.firstName

"John"

jd.address

"1234 Park st."

jd.address = "1234 Park In."

"1234 Park In."

jd

Object {firstName: "John", lastName: "Doe", age: 36, address: "1234 Park In."}

2)

var people = [

{

firstname: "Moe",

lastname: "Doe",

age: 31,

address: "1234 Park Street"

},

{

firstname: "Larry",

lastname: "Doe",

age: 36,

address: "1234 Spark Street"

},

{

firstname: "Curly",

lastname: "Doe",

age: 36,

address: "1239 Park St."

},

{

firstname: "Jane",

lastname: "Doe",

age: 32,

address: "1239 Park St."

}

]

undefined

people

[Objectaddress: "1234 Park Street"age: 31firstname: "Moe"lastname: "Doe"\_\_proto\_\_: Object, Object, Object, Object]

Fortune Teller