



# 98-382<sup>Q&As</sup>

Introduction to Programming Using JavaScript

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### QUESTION 1

DRAG DROP

You are using JavaScript to create a calculator.

You create the following HTML. Line numbers are included for reference only.

```
01 <form id="calculator">
02   <input type="text" id="a" />
03   <input type="text" id="b" />
04   <input type="text" id="result" />
05   <input type="button" onclick="add()" value="+" />
06 </form>
```

You must create a function named add() that adds the values in the a and b input elements and displays the result in the result input element.

You define the following function in JavaScript:

```
function add() {
}
}
```

You need to complete the body of the function.

Which three code segments should you use to develop the solution? To answer, move the appropriate code segments from the list of code segments to the answer area and arrange them in the correct order.

NOTE: Each correct selection is worth one point.

Select and Place:

#### Code Segments

- 
- 
- 
- 
- 
- 
- 

#### Answer Area



Correct Answer:



Code Segments

```
var a = eval(document.getElementById("a").value);  
var result = eval(document.getElementById("result"));  
var b = eval(document.getElementById("b"));  
  
var result = a + b;
```



Answer Area

```
var a = eval(document.getElementById("a"));  
var b = eval(document.getElementById("b").value);  
document.getElementById("result").value = a + b;
```

References: [https://www.w3schools.com/jsref/jsref\\_eval.asp](https://www.w3schools.com/jsref/jsref_eval.asp)

QUESTION 2

HOTSPOT

You are creating a calendar application. You need to ensure that the code works correctly for all months of the year.

How should you complete the code? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:



### Answer Area

```
var daysInMonth;  
var month;  
month = new Date().getMonth();  
  
switch (month) {  
case (month) {  
break {  
  
case 1:  
    daysInMonth = 28; // for February, ignore leap years  
  
case 3:  
    break;  
case 5:  
    while (month);  
case 8:  
  
case 10:  
    daysInMonth = 30;  
  
break;  
continue;  
while (month);
```

Correct Answer:



### Answer Area

```
var daysInMonth;  
var month;  
month = new Date().getMonth();  
  
switch (month) {  
case (month) {  
break {  
  
case 1:  
    daysInMonth = 28; // for February, ignore leap years  
  
case 3: break;  
case 5: while (month);  
case 8:  
  
case 10:  
    daysInMonth = 30;  
  
break;  
continue;  
while (month);
```

References: [https://www.w3schools.com/js/js\\_break.asp](https://www.w3schools.com/js/js_break.asp) [https://www.w3schools.com/jsref/jsref\\_switch.asp](https://www.w3schools.com/jsref/jsref_switch.asp)

### QUESTION 3

#### HOTSPOT

Your instructor has asked you to write a program that uses simple rules to help determine if a person should take the train, drive their car, or ride a bike, depending on the conditions of the weather and the amount of gas in the car's tank.

The program has the following requirements:

When the temperature is above 65 degrees and it is not raining, the person should be told to ride their bike.

When it is raining, the person should be told to drive their car.

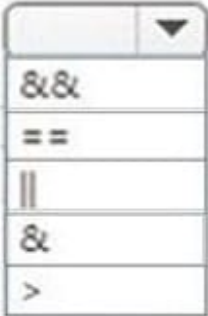

If their car has half a tank of gas or less, they should be told to take the train.

How should you complete the code? To answer, select the appropriate code segments in the answer area.

Hot Area:



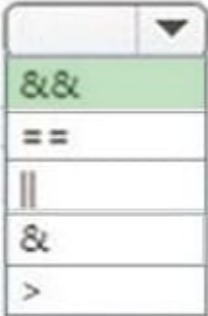

## Answer Area

```
if(temperature > 65  !raining)
    advice = "Ride Bike";
else if(fuelTank  .5)
    advice = "Take Train";
else
    advice = "Drive your car";
```

Correct Answer:



## Answer Area

```
if(temperature > 65  !raining)
    advice = "Ride Bike";
else if(fuelTank  .5)
    advice = "Take Train";
else
    advice = "Drive your car";
```

References: [https://www.w3schools.com/jsref/jsref\\_operators.asp](https://www.w3schools.com/jsref/jsref_operators.asp)

### QUESTION 4

#### HOTSPOT

You are using JavaScript to write a safe root math utility that has the following requirements:

Given the function `safeRoot(a, b)`:

If the radicand (a) is non-negative, return `Math.pow(a, 1/b)`;

Otherwise,

If the index (b) is divisible by 2, then return text indicating the result is imaginary.

Otherwise return `-Math.pow(-a, 1/b)`

How should you complete the code? To answer, select the appropriate code segments in the answer area.

NOTE: Each correct selection is worth one point.



Hot Area:

## Answer Area

```
function safeRoot(a, b) {
```

```
    if (a >= 0) {
        if (b % 2 == 0) {
```

```
            return Math.pow(a, 1 / b);
```

```
        } else if (b % 2 == 0) {
        } else if (a >= 0) {
        } else {
            if (b % 2 == 0) {
```

```
                } else if (b % 2 == 0) {
                } else if (a >= 0) {
                if (a >= 0) {
                if (b % 2 == 0) {
```

```
                    return "Result is an imaginary number";
```

```
                } else if (b % 2 == 0) {
                } else if (a >= 0) {
            } else {
                if (a >= 0) {
                if (b % 2 == 0) {
```

```
        }
    }
```

Correct Answer:





## Answer Area

```
function safeRoot(a, b) {
```

```
    if (a >= 0) {
        if (b % 2 == 0) {
```

```
            return Math.pow(a, 1 / b);
```

```
        } else if (b % 2 == 0) {
        } else if (a >= 0) {
        } else {
            if (b % 2 == 0) {
```

```
                } else if (b % 2 == 0) {
                } else if (a >= 0) {
                if (a >= 0) {
                if (b % 2 == 0) {
```

```
                    return "Result is an imaginary number";
```

```
                } else if (b % 2 == 0) {
                } else if (a >= 0) {
                } else {
                    if (a >= 0) {
                    if (b % 2 == 0) {
```

```
            }
        }
    }
```

References: [https://www.w3schools.com/js/js\\_if\\_else.asp](https://www.w3schools.com/js/js_if_else.asp)

### QUESTION 5

DRAG DROP

A JavaScript array is initialized as follows:

```
var array = [20, 40, 60, 80];
```

You write the following code to manipulate the array:





```
array.shift();  
array.pop();  
array.push(10);  
array.unshift(100);
```





You need to determine the contents of the array.

Which four elements does the array contain in sequence? To answer, move the appropriate elements from the list of elements to the answer area and arrange them in the correct order.

Select and Place:

Elements		Answer area
10	 	
20		
40		
60		
80		
100		
		 

Correct Answer:

Elements		Answer area
20	 	100
		40
80		60
		10
		 

References: <https://www.bennadel.com/blog/1796-javascript-array-methods-unshift-shift-push-and-pop.htm>

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