

Patrick V. Leabres

Observation Report – JavaScript Algorithm 2

WD37 Decoders

Level 2 ▶ Challenge 1



Predict the output of the following code:

1 `var x = [1,2,4];`

`x=[1,2,4]`

2 `console.log(x);`

`output [1,2,4]`

T Diagram

Variable	Values
x	[1,2,4]
a,b,c	1,2,3

[1,2,4]

SUBMIT

NEXT ACTIVITY



Hey, you got it right! Wanna see how we did it?

Report a Mistake?

Level 2 ▶ Challenge 2



Predict the output of the following code:

1 `var x = [1,3,5];`

`x=[1,3,5]`

2 `console.log(x[0]);`

`output 1`

T Diagram

Variable	Values
x	[1,3,5]
x[0]	1
a,b,c	1,2,3

1

SUBMIT

NEXT ACTIVITY



Hey, you got it right! Wanna see how we did it?

Report a Mistake?

Level 2 ▶ Challenge 3



Predict the output of the following code:

1

var x = [2,4,6];

x=[2,4,6]

2

console.log(x[1]);

output 4

T Diagram

Variable	Values
x	[2,4,6]
x[1]	4
a,b,c	1,2,3

4

SUBMIT

NEXT ACTIVITY

Hey, you got it right! Wanna see how we did it?

Report a Mistake?

Level 2 ▶ Challenge 4



Predict the output of the following code:

1

var x = [1,3,5];

x=[1,3,5]

2

console.log(x[2]);

output 5

T Diagram

Variable	Values
x	[1,3,5]
x[2]	5
a,b,c	1,2,3

5

SUBMIT

NEXT ACTIVITY

Hey, you got it right! Wanna see how we did it?

Report a Mistake?

Level 2 ▶ Challenge 5



Predict the output of the following code:

1

`var x = [1.3];`

`x=1.3`

2

`console.log(x[0]);`

`output 1.3`

T Diagram

Variable	Values
x	1.3
x[0]	1.3
a,b,c	1,2,3

1.3

SUBMIT

NEXT ACTIVITY

Hey, you got it right! Wanna see how we did it?

Report a Mistake?

Level 2 ▶ Challenge 6



Predict the output of the following code:

1

`var x = [1,2,4];`

`x=[1,2,4]`

2

`x[0] = x[1];`

`x[1] = 2`
`x[0] = 2`

3

`console.log(x);`

`output [2,2,4]`

T Diagram

Variable	Values
x	[1,2,4]
x	[2,2,4]
a,b,c	1,2,3

[2,2,4]

SUBMIT

NEXT ACTIVITY

Hey, you got it right! Wanna see how we did it?

Report a Mistake?

Level 2 ▶ Challenge 7



Predict the output of the following code:

1 `var x = [1,3,5];`

`x=[1,3,5]`

2 `var y = x.length;`

`x.length = 3`
`y = 3`

3 `console.log(y);`

output 3

T Diagram

Variable	Values
x	[1,3,5]
y	3
a,b,c	1,2,3

3

SUBMIT

NEXT ACTIVITY



Hey, you got it right! Wanna see how we did it?

[Report a Mistake?](#)

Level 2 ▶ Challenge 8



Predict the output of the following code:

1 `var x = [2,4,6,3,7];`

`x=[2,4,6,3,7]`

2 `var y = x.length - 2;`

`x.length=5`
`y=5-2`
`y=3`

3 `console.log(x[y]);`

output 3

T Diagram

Variable	Values
x	[2,4,6,3,7]
y	3
x[3]	3
a,b,c	1,2,3

3

SUBMIT

NEXT ACTIVITY



Hey, you got it right! Wanna see how we did it?

[Report a Mistake?](#)

Level 2 ▶ Challenge 9



Predict the output of the following code:

1 `var x = [2,4,6,3,7];`

`x=[2,4,6,3,7]`

2 `var y = x.length;`

`x.length=5`
`y=5`

3 `console.log(x[y-1]);`

output 7

T Diagram

Variable	Values
x	[2,4,6,3,7]
y	5
x[4]	7
a,b,c	1,2,3

7

SUBMIT

NEXT ACTIVITY



Hey, you got it right! Wanna see how we did it?

[Report a Mistake?](#)

Level 2 ▶ Challenge 10



Predict the output of the following code:

1 `var x = [1,3,5,7];`

`x=[1,3,5,7]`

2 `x[0] = x[x.length-2];`

`x.length=4`
`x[0] = x[4-2]`
`x[0] = 5`

3 `console.log(x);`

output [5,3,5,7]

T Diagram

Variable	Values
x	[1,3,5,7]
x[0]	5
x	[5,3,5,7]
a,b,c	1,2,3

[5,3,5,7]

SUBMIT

NEXT ACTIVITY



Hey, you got it right! Wanna see how we did it?

[Report a Mistake?](#)

Level 2 ▶ Challenge 11



Predict the output of the following code:

1 `var x = [1,3,5,7];`

`x=[1,3,5,7]`

2 `x[x.length-3] = x[x.length/2+x.length/4];`

`x[4-3]=x[4/2 + 4/4]`
`x[1]=x[3]`
`x[1]=7`

3 `console.log(x);`

`output [1,7,5,7]`

T Diagram

Variable	Values
x	[1,3,5,7]
x	[1,7,5,7]
a,b,c	1,2,3

[1,7,5,7]

SUBMIT

NEXT ACTIVITY



Hey, you got it right! Wanna see how we did it?

[Report a Mistake?](#)

Level 2 ▶ Challenge 12



Predict the output of the following code:

1 `var x = [1,3,5,7];`

`x=[1,3,5,7]`

2 `var y = [2,4,6];`

`y=[2,4,6]`

3 `x[2] = y[x.length-3];`

`x[2]=y[4-3]`
`x[2]=y[1]`
`x[2]=4`

T Diagram

Variable	Values
x	[1,3,5,7]
y	[2,4,6]
x	[1,3,4,7]
a,b,c	1,2,3

[1,3,4,7]

SUBMIT

NEXT ACTIVITY



Hey, you got it right! Wanna see how we did it?

[Report a Mistake?](#)

Level 2 ▶ Challenge 13



Predict the output of the following code:

2 `var y = [2,4,6];`

`y=[2,4,6]`

3 `x[2] = y[x.length-3] + x[x[0] + y[0]];`

`x[2]=y[4-3] + x[1+2]`

`x[2]=y[1] + x[3]`

`x[2]= 4+7`

4 `console.log(x);`

`output [1,3,11,7]`

T Diagram

Variable	Values
x	[1,3,5,7]
y	[2,4,6]
x[2]	11
x	[1,3,11,7]
a,b,c	1,2,3

x	[1,3,5,7]
y	[2,4,6]
x[2]	11
x	[1,3,11,7]
a,b,c	1,2,3

[1,3,11,7]

SUBMIT

NEXT ACTIVITY



Hey, you got It right! Wanna see how we did it?

[Report a Mistake?](#)

Lessons

16%

Level 2 (13/13)

Activity 1	00:39
Activity 2	01:14
Activity 3	00:38
Activity 4	00:40
Activity 5	00:34
Activity 6	01:20
Activity 7	00:59
Activity 8	01:27
Activity 9	01:30
Activity 10	02:15
Activity 11	02:24
Activity 12	02:32
Activity 13	03:57