

Module 1 - Loops and Arrays NLR3

Thursday, July 1, 2021, 12:41 PM

Share

< Back to Results Table

< 2 of 8 >

```
1      2      4
for (int i = 0; i < 10; i++) {
3
}
```

```
2. int answer = 0;
   for(int i = 0; i < 10; i++) {
       if(i % 2 == 0) {
           answer = answer + i;
       }
   }
```

System.out.println(answer);

What value is displayed by this program?

Hide Answers

Show Names

22/26 Students Answered

20

5

21

20

answer

0
2
4
6
8
10
12
14
16
18
20

i

0
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20

1. initialization section
2. check the expression (condition)
- 3 if expression is true, execute the block
4. altering list

1 % 2
2 % 2

3 % 2 = 1

4 % 2 = 0

< Back to Results Table

< 3 of 8 >

```
3. int sum = 0;
   for(int i = 10; i > 0; i -= 3) {
       sum += i;
   }
   System.out.println(sum);
```

sum = sum + i;

What value does the preceding fragment display?

Hide Answers

Show Names

22/26 Students Answered

3

22

22

sum

10
7
4
1

continue looping until condition is false

i
10
7
4
1

- 1) int sum = 0;
- 2) for(int i = 0; i < 10; i++)
- 3) sum += i;
- 4)
- 5) int count = i;

The preceding code fragment will cause a compiler error, which line will cause the error?

Show Results

21/26 Students Answered

A Line 1

B Line 2

C Line 3

D Line 4

E Line 5

```
int sum=0;
for (int i = 0; i < 10 ; i++) {
    sum += i;
}
```

int count = i;

(although you don't need curly braces if there is only one statement in the block)

Module 1 - Loops and Arrays NLR3

Thursday, July 1, 2021, 12:41 PM

Shai

[Back to Results Table](#)

< 4 of 8 >

```
4. 1) int sum = 0;
    2) for(int i = 0; i < 10; i++) {
    3)     sum += i;
    4) }
    5) int count = i;
```

The preceding code fragment will cause a compiler error, which line will cause the error?

Show Results

21/26 Students Answered

A Line 1

B Line 2

C Line 3

D Line 4

E Line 5

F I don't know

(although you don't need curly braces if there is only one statement in the block)

```
int sum=0;
for (int i = 0; i < 10 ; i++) {
    sum += i;
}
```

```
int count = i;
```

```
int i = 10;

if (i % 2 == 0)
    i += 5;

System.out.println(i);
//some other statements
```

```
int i;
int sum = 0;
for (i = 0; i < 10; i++)
    sum+=i;
```

```
int count = i;
```

```
int i = 0;
int sum = 0;
for (; i < 10; i++)
    sum += i;
```

```
int count = i;
```

[Back to Results Table](#)

< 5 of 8 >

5.

```
boolean[] first = { true, true, false, false };
boolean[] second = first;

first[0] = false;
second[2] = true;

for(int ix = 0; ix < first.length; ix++) {
    boolean b = first[ix];
    System.out.print(b+" ");
}
```

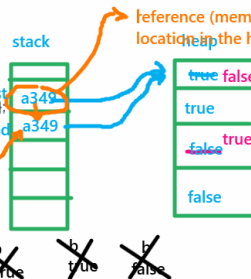
What does the preceding code fragment display?

Hide Answers

Show Names

20/26 Students Answered

true true false false	ⓧ
true	ⓧ
a boolean array	ⓧ
false	ⓧ



stack is used to hold primitive data type because it knows how many bytes are needed for these

heap is used to hold arrays and objects because compiler doesn't know how many bytes to reserve

```
first.length = 4
```

```
ix
0
1
2
3
4
```

System.out.println -- means hit the enter key after printing out the values

System.out.print -- says just print the values

```
output
false true true false
```

6. Given the following for loop:

```
for(int i = 0; i < 5; i++) {
    int sum = 0;
    sum += i;
    System.out.print(sum + " ");
}
```

What is the printed output of the preceding code?

Hide Answers

Show Names

18/26 Students Answered

0+ 1+ 3+ 6+ 10+

dont know

15

10

i dont know

15

10

0 1 2 3 4



Output

0 1 2 3 4

< Back to Results Table

< 7 of 8 >

numbers.length = 10

```
7. int[] numbers = new int[10];
   for(int ix = 0; ix < numbers.length; ix++) {
       numbers[ix] = ix * 2;
   }
```

int result = numbers[3];

What is the value of result after this code executes?

Hide Answers

Show Names

17/26 Students Answered

dont know

2

20

1

20

6

numbers

0	0
1	2
2	4
3	6
4	8
5	10
6	12
7	14
8	16
9	18

ix
6
3

6

< Back to Results Table

< 8 of 8 >

```
8. String[] cities = { "Cleveland", "Columbus", "Cincinnati", "Akron",
    "Dayton", "Toledo" };
String result = cities[3];
```

What is the value of result after this code executes?

Show Results

17/26 Students Answered

A Cleveland

B Columbus

C Cincinnati

D Akron

E Dayton

F Toledo

G I don't know

0	Cleveland
1	Columbus
2	Cincinnati
3	Akron
4	Dayton
5	Toledo

```
/*
13. Given an array of ints, return true if the array contains a 2 next to a 2 some
has22([1, 2, 2]) → true
has22([1, 2, 1, 2]) → false
has22([2, 1, 2]) → false
*/
public boolean has22(int[] nums) { nums.length - 1
    for (int i = 0; i < nums.length; i++){
        if (nums[i] == 2 && nums[i + 1] == 2){
            return true;
        }
    }
    return false;
}
```

	nums	i
0	1	0
1	2	1
2	1	2
3	2	3
4	1	
5		

EXCEPTION!