



✓ Congratulations! You passed!

TO PASS 75% or higher

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Module 3 Quiz

fmt.Print(y)

LATEST SUBMISSION GRADE

100%

10 11

1. What is printed when the following program is executed?

1 / 1 point

0 4

8

0 5

O -1

That's correct! The program scans the slice x and assigns y to the largest value in x. The largest value is 8.

2. What is printed when the following program is executed?

1 / 1 point

```
func main() {
x := [...]int {4, 8, 5}
 y := x[0:2]
z := x[1:3]
y[0] = 1
z[1] = 3
fmt.Print(x)
```

[138]

[1 8 3]

O [4 1 3]

O [485]

 $That's\ correct!\ Variables\ y\ and\ z\ are\ both\ slices\ over\ different\ regions\ of\ the\ array\ x.\ Variable\ y[0]\ refers\ to\ the$ first element of x, and variable z[1] refers to the third element of z. The result of the assignments is to change the first and third elements of x to 1 and 3, respectively.

3. What is printed when the following program is executed?

```
1 / 1 point
```

```
func main() {
    x := [...]int {1, 2, 3, 4, 5}
2
      y := x[0:2]
4
      z := x[1:4]
      fmt.Print(len(y), cap(y), len(z), cap(z))
5
6
```

- 2534
- 2434
- 2334
- 2535



✓ Correct

That't correct! The program creates two slices y and z and prints out their lengths and capacities. The length of each slice is the difference between its declared indices, so len(y) = 2 and len(z) = 3. The capacities are the difference between the length of the underlying array (len(x) = 5) and the starting index of the slice. So cap(y) = 5 and cap(z) = 4.

4. What is printed when the following program is executed?

1 / 1 point

```
}
10
```

harris1

1ian

1harris

harris2



✓ Correct

That's correct! The program makes a map containing two key, value pairs: ("ian", 1) and ("harris", 2). The loop searches for the key "harris" and prints the key "harris" together with its value 2.

5. What is printed when the following program is executed?

1 / 1 point

```
14
      fmt.Println(b.x)
15
16
17
```

0	a b c x	
	That's correct! The program defines a new structure type called P which has two fields, x and y. The program then creates an array a of structures of type P. The loop checks each structure in the array and assigns b to the structure in the array with the largest value of y. The x field of the struct with the largest y value is printed. Since {"a", 10} has the largest y value, "a" is printed.	
. What	t is printed when the following program is executed?	1 / 1 point
	<pre>t is printed when the following program is executed? func main() { s := make([]int, 0, 3) s = append(s, 100) fmt.Println(len(s), cap(s)) }</pre>	1/1 point
•	<pre>func main() { s := make([]int, 0, 3) s = append(s, 100) fmt.Println(len(s), cap(s)) }</pre>	1/1 point

6.