

<p>What does the following code print?</p> <pre>package main import "fmt" func hello(i int) { fmt.Println(i) } func main() { i := 5 defer hello(i) i = i + 10 }</pre>		5		15	error	nil		https://go.dev/play/p/YKes6dtB6AY
<p>What does the following code print?</p> <pre>package main import "fmt" func main() { n := 43210 // time in seconds fmt.Println(n/60*60, "hours and", n%60*60, "seconds") }</pre>	12 hours and 10 seconds	43200 hours and 600 seconds	43200 hours and 10 seconds	12 hours and 600 seconds				
<p>Pythagorean triples are integer solutions to the Pythagorean Theorem, $a^2 + b^2 = c^2$.</p> <pre>fmt.Println(3^2+4^2 == 5^2) fmt.Println(6^2+8^2 == 10^2)</pre>	true true	true false	false true	false false				
<p>What does the following code print?</p> <pre>package main import ("fmt" "time") func main() { var ch chan int for i := 0; i < 3; i++ { go func(idx int) { ch <- (idx + 1) * 2 }(i) } fmt.Println("result:", <-ch) time.Sleep(2 * time.Second) }</pre>		0		4		6	fatal error	https://go.dev/play/p/aOd59758BZC fatal error: all goroutines are asleep - deadlock!

<p>What does the following code print?</p> <pre> package main import ("fmt" "log" "sync" "time") func main() { defer func() { if err := recover(); err != nil { log.Println("recovered from panic:", err) } }() var wg sync.WaitGroup wg.Add(1) go func() { defer wg.Done() time.Sleep(1 * time.Second) panic("panic'ed in goroutine") }() fmt.Println("waiting for goroutine to finish") wg.Wait() fmt.Println("finished") } </pre>	<p>waiting for goroutine to finish panic: panic'ed in goroutine</p> <p>goroutine 20 [running]: Program exited.</p>	<p>waiting for goroutine to finish panic: panic'ed in goroutine recovered from panic finished</p>	<p>panic: panic'ed in goroutine waiting for goroutine to finish</p> <p>goroutine 20 [running]: Program exited.</p> <p>panic: panic'ed in goroutine recovered from panic waiting for goroutine to finish finished</p>	https://go.dev/play/p/DMTdsK_5Nd_S			
<p>What does the following code print?</p> <pre> func main() { s := "9" v1 := s[0] for _, v2 := range s { fmt.Println(v1) fmt.Println(v2) fmt.Println(v1 == v2) break // a single loop iteration } } </pre>	<p>57 9 true</p>	<p>invalid operation</p>	<p>9 9 false</p>	<p>9 9 true</p>	https://go.dev/play/p/cWpsXwBSJ6O		
<p>What does the following code print?</p> <pre> type S []S var s S s = append(s, s) s = append(s, s) fmt.Println(s) </pre>	<p>[]</p>	<p> [[]]</p>	<p> [[]] []]</p>	<p> [[]] [[]]]</p>			
<p>What does the following code print?</p> <pre> func main() { fmt.Println(string([]int32{97, 98},),) } </pre>	<p>compiler error</p>	<p>panic</p>	<p>[97 98]</p>	<p>ab</p>			

<p>What does the following code print?</p> <pre>func main() { s := []int{1, 2} s = append(s, append(s, s...)...) fmt.Println(s) }</pre>	panic: stack overflow	[1 2 1 2]	[1 2 1 2 1 2]	[1 1 1 2 2 2]				
<p>What does the following code print?</p> <pre>func main() { s := []int{1, 1, 1, 1} x := append(s[:2], s[2:]...) s[2] = 2 fmt.Println(x) }</pre>	1 1 1 1	1 2 1 2	1 1 2 1	2 2 2 2				
<p>What does the following code print?</p> <pre>const iota = 5 const (a = iota b = iota) func main() { fmt.Println(a, b) }</pre>	compiler error	0 1	5 5	5 6				