



```
package main

func main() {
    m := map[string]int{"a": 1}
    val, ok := m["b"]
    print(val, ok)
}

// What are the values of val and ok?
```



```
package main
import "fmt"

func main() {
    m := make(map[string]int)
    m["x"] = 10
    m["y"] = 20
    fmt.Println(len(m))
}
// What gets printed?
```



```
package main
import "fmt"

func main() {
    m := map[string]int{"a": 1, "b": 2}
    fmt.Println(m["a"], m["c"])
}

// What's the output?
```



```
package main
import "fmt"

func main() {
    s := []int{1, 2, 3}
    fmt.Println(len(s), cap(s))
}
// What's the length and capacity?
```



```
package main
import "fmt"

func main( ) {
    var arr [3]int
    fmt.Println(arr)
}

// What is the output?
```



```
package main
```

```
func main( ) {  
    const x = 10  
    x = 20  
    print(x)  
}
```

```
// What happens when you run this?
```



```
package main

func main() {
    var x int
    var y int = 10
    z := 20
    print(x, y, z)
}

// What gets printed?
```



```
package main
```

```
func main() {  
    x := 42  
    y := 3.14  
    z := "hello"  
    print(x, y, z)  
}
```

```
// What are the types of x, y, and z?
```



```
package main

func sum(nums ...int) int {
    total := 0
    for _, n := range nums {
        total += n
    }
    return total
}

func main() {
    print(sum(1, 2, 3, 4))
}
// What gets printed?
```



```
package main

func add(a, b int) int {
    return a + b
}

func main() {
    result := add(3, 4)
    print(result)
}
// What gets printed?
```



```
package main

func main( ) {
    x := 2
    switch x {
    case 1:
        print("One")
    case 2:
        print("Two")
    case 3:
        print("Three")
    }
// What's the output?
```



```
package main

func main( ) {
    x := 10
    if x > 5 {
        print("Big")
    } else {
        print("Small")
    }
// What gets printed?
```



```
package main

func divide(a, b int) (int, int) {
    return a / b, a % b
}

func main() {
    q, r := divide(17, 5)
    print(q, r)
}
// What's the output?
```



```
package main

func main() {
    x := 42
    y := 3.14
    z := "hello"
    print(x, y, z)
}
// What are the types of x, y, and z?
```



```
package main

func main() {
    for i := 0; i < 3; i++ {
        print(i)
    }
    // What's the output?
```



```
package main
import "fmt"

func main() {
    s := []int{1, 2, 3}
    s = append(s, 4, 5)
    fmt.Println(s)
}

// What gets printed?
```