



```
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?
```