

Listings

1	Hello world	2
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1 #!/usr/bin/swift
2 print("Hello, Word!")
3 // prints Hello World!
```

Listing 1: Hello world

1 functions

```
1 #!/usr/bin/swift
2
3 func greet(_ person:String, on day:String) -> String {
4     return "Hello \((person), today is \((day))."
5 }
6 print(greet("Juan", on: "Thursday"))
7
8 func calculateStats(scores: [Int]) -> (min: Int, max: Int, sum:
9     Int) {
10     var min = scores[0] //5
11     var max = scores[0] //5
12     var sum = 0
13
14     for score in scores {
15         if score > max {
16             max = score
17         }
18         else if score < min {
19             min = score
20         }
21         sum += score
22     }
23     return (min,max,sum)
24 }
25 let statistics = calculateStats(scores: [5,3,100,3,9])
26 print(statistics.sum)
27 print(statistics.1)
28
29 func makeIncrementor() -> ((Int) -> Int) {
30     func addOne(number:Int) -> Int {
31         return 1 + number
32     }
33     return addOne
```

```

34 }
35 var increment = makeIncrementor()
36 print(increment(7))
37
38 func hasAnyMatches(list: [Int], condition:(Int)->Bool)->Bool {
39     for item in list {
40         if condition(item) {
41             return true
42         }
43     }
44     return false
45 }
46 func lessThanTen(number: Int)->Bool{
47     return number < 10
48 }
49 var numbers = [20, 19, 7, 12]
50 hasAnyMatches(list: numbers, condition: lessThanTen)
51
52 numbers.map({ (number: Int) -> Int in
53     let result = 3 * number
54     return result
55 })
56
57 let mappedNumbers = numbers.map({ number in
58     3 * number })
59 print(mappedNumbers)
60 print(numbers)
61
62 let sortedNumbers = numbers.sorted() { $0 >
63     $1 }
64 print(sortedNumbers)
65 // Prints sortedNumbers from least to greatest

```

functions.swift