//1

func getDate(date: Date, zone: Int = 0) -> String {

let formatter = DateFormatter()

formatter.dateFormat = "yyyy年MM月dd日EEEE aa KK:mm"

formatter.locale = Locale.current

if zone >= 0 {

formatter.timeZone = TimeZone(abbreviation: "UTC+\(zone):00")

} else {

formatter.timeZone = TimeZone(abbreviation: "UTC\(zone):00")

}

let dateString = formatter.string(from: now)

return dateString

}

let now = Date()

let beijing = getDate(date: now, zone: +8)

print("北京: \(beijing)")

let tokyo = getDate(date: now, zone: 9)

print("东京: \(tokyo)")

let newYork = getDate(date: now, zone: -5)

print("纽约: \(newYork)")

let london = getDate(date: now)

print("伦敦: \(london)")

//2

let parentString = "Swift is a powerful and intuitive programming language for iOS, OS X, tvOS, and watchOS."

let subString = parentString.replacingOccurrences(of: "OS", with: "")

print(subString)

//3

let dic = ["date": ["beijing": beijing, "tokyo": tokyo, "newYork": newYork, "london": london], "string": subString] as AnyObject

let defaultDoc = FileManager.default

if var path = defaultDoc.urls(for: .documentDirectory, in: .userDomainMask).first?.path {

path.append("/test.txt")

print(dic.write(toFile: path, atomically: true))

}

//4

let image = try Data(contentsOf: URL(string: "https://ss0.bdstatic.com/5aV1bjqh\_Q23odCf/static/superman/img/logo/bd\_logo1\_31bdc765.png")!)

if var url = defaultDoc.urls(for: .documentDirectory, in: .userDomainMask).first {

url.appendPathComponent("image.png")

try image.write(to: url)

}

//5

let url = URL(string: "http://www.weather.com.cn/data/sk/101110101.html")!

//let str = try String(contentsOf: url)

//print(str)

let data = try Data(contentsOf: url)

let json = try JSONSerialization.jsonObject(with: data, options: .allowFragments)

if let dic = json as? [String: Any] {

if let weather = dic["weatherinfo"] as? [String: Any] {

let city = weather["city"]!

let temp = weather["temp"]!

let wd = weather["WD"]!

let ws = weather["WS"]!

print("城市: \(city), 温度: \(temp), 风向: \(wd), 风力: \(ws)")

//输出: 城市: 西安, 温度: 20, 风向: 西南风, 风力: 1级

}

}