```
# ======= listscore ========
score = [ 88, 95, 70, 100, 99 ]
sum = 0
for s in score:
   sum += s
print("총점: ", sum)
print("평균: ", sum / len(score))
# ======== listslice =========
nums = [0,1,2,3,4,5,6,7,8,9]
print(nums[2:5])
                    # 2~5까지
print(nums[:4])
                    # 처음부터 4까지
print(nums[6:])
                    # 6에서 끝까지
print(nums[1:7:2])
                    # 1~7까지 하나씩 건너뛰며
# ======= listassign ========
score = [ 88, 95, 70, 100, 99 ]
                # 70
print(score[2])
                 # 값 변경
score[2] = 55
print(score[2])
                # 55
# ======= listreplace ========
nums = [0, 1, 2, 3, 4, 5, 6, 7, 8, 9]
nums[2:5] = [20, 30, 40]
print(nums)
nums[6:8] = [90, 91, 92, 93, 94]
print(nums)
# ======= rangeremove =========
nums = [0, 1, 2, 3, 4, 5, 6, 7, 8, 9]
nums[2:5] = []
del nums[4]
print(nums)
# ======= listcat ========
list1 = [1, 2, 3, 4, 5]
list2 = [10, 11]
listadd = list1 + list2
print(listadd)
listmulti = list2 * 3
```

```
# ======= nestlist ========
lol = [ [1, 2, 3], [4, 5], [6, 7, 8, 9]]
print(lol[0])
print(lol[2][1])
for sub in lol:
   for item in sub:
       print(item, end=' ')
   print()
# ======= nestscore ========
score = [
   [88, 76, 92, 98],
   [65, 70, 58, 82],
   [82, 80, 78, 88]
   1
total = 0
totalsub = 0
for student in score:
   sum = 0
   for subject in student:
       sum += subject
   subjects = len(student)
   print("총점 %d, 평균 %.2f" % (sum, sum / subjects))
   total += sum
   totalsub += subjects
print("전체평균 %.2f" % (total / totalsub))
# ======= listcomp ========
nums = [n * 2 \text{ for n in range}(1, 11)]
for i in nums:
   print(i, end = ', ')
# ======= listinsert ========
nums = [1, 2, 3, 4]
nums.append(5)
nums.insert(2, 99)
print(nums)
# ======= insertrange ========
```

```
nums = [1, 2, 3, 4]
nums[2:2] = [90, 91, 92]
print(nums)
nums = [1, 2, 3, 4]
nums[2] = [90, 91, 92]
print(nums)
# ======= extend ========
list1 = [1, 2, 3, 4, 5]
list2 = [10, 11]
list1.extend(list2)
print(list1)
# ======= listremove ========
score = [ 88, 95, 70, 100, 99, 80, 78, 50 ]
score.remove(100)
print(score)
del(score[2])
print(score)
score[1:4] = []
print(score)
# ======= pop ========
score = [ 88, 95, 70, 100, 99 ]
print(score.pop())
print(score.pop())
print(score.pop(1))
print(score)
# ======= listindex ========
score = [ 88, 95, 70, 100, 99, 80, 78, 50 ]
perfect = score.index(100)
print("만점 받은 학생은 " + str(perfect) + "번입니다.")
pernum = score.count(100)
print("만점자 수는 " + str(pernum) + "명입니다")
# ======= listmin ========
score = [88, 95, 70, 100, 99, 80, 78, 50]
print("학생 수는 %d명입니다." % len(score))
print("최고 점수는 %d점입니다." % max(score))
```

```
print("최저 점수는 %d점입니다." % min(score))
# ======== listin ========
ans = input("결제 하시겠습니까? ")
if ans in ['yes', 'y', 'ok', '예', '당근']:
   print("구입해 주셔서 감사합니다.")
else:
   print("안녕히 가세요.")
# ======= sort ========
score = [ 88, 95, 70, 100, 99 ]
score.sort()
print(score)
score.reverse()
print(score)
# ======== sort2 ========
country = ["Korea", "japan", "CHINA", "america"]
country.sort()
print(country)
country.sort(key = str.lower)
print(country)
# ======= sorted ========
score = [ 88, 95, 70, 100, 99 ]
score2 = sorted(score)
print(score)
print(score2)
# ======= tuplescore =========
score = (88, 95, 70, 100, 99)
sum = 0
for s in score:
   sum += s
print("총점: ", sum)
print("평균: ", sum / len(score))
# ======= onetuple ========
tu = 2,
value = 2
print(tu)
```

```
print(value)
# ======= tupleop ========
tu = 1, 2, 3, 4, 5
print(tu[3])
                # 가능
print(tu[1:4]) # 가능
print(tu + (6, 7)) # 가능
               # 가능
print(tu * 2)
tu[1] = 100
               # 불가능
del tu[1]
                # 불가능
# ======= unpacking =========
tu = "이순신", "김유신", "강감찬"
lee, kim, kang = tu
print(lee)
print(kim)
print(kang)
# ======= swap ========
a, b = 12, 34
print(a, b)
a, b = b, a
print(a, b)
# ======= tworeturn ========
import time
def gettime():
   now = time.localtime()
   return now.tm_hour, now.tm_min
result = gettime()
print("지금은 %d시 %d분입니다" % (result[0], result[1]))
# ======= divmod ========
d, m = div mod(7, 3)
print("몫", d)
print("나머지", m)
# ======= convertlist ========
score = [ 88, 95, 70, 100, 99 ]
```

```
tu = tuple(score)
#tu[0] = 100
print(tu)
li = list(tu)
li[0] = 100
print(li)
```