**5장 연습문제 정답**

**1.**

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| data = [-12, 3, -9, 5, 8, -2, 0, -8, 3, 10]  largest = data[0]  for i in range(len(data)) :  if data[i] > largest :  largest = data[i]  print('가장 큰 수 : %d' % largest) |

**2.**

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| data = [-12, 3, -9, 5, 8, -2, 0, -8, 3, 10]  i = 0  sum = 0  while i < len(data) :  if (i+1)%2 == 0 :  sum += data[i]    i += 1    avg = sum/(len(data)/2)  print('합계 : %d, 평균 : %.2f' % (sum, avg)) |

**3.**

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| data = [-12, 3, -9, 5, 8, -2, 0, -8, 3, 10]  data.sort(reverse=True)  for i in range(len(data)) :  print(data[i], end=' ') |

**4.**

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| data = [-12, 3, -9, 5, 8, -2, 0, -8, 3, 10]  data.insert(3, 100)  for i in range(len(data)) :  print(data[i], end=' ') |

**5.**

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| data = [-12, 3, -9, 5, 8, -2, 0, -8, 3, 10]  data.remove(-12)  for i in range(len(data)) :  print(data[i], end=' ') |

**6.**

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| stone = [[0, 0, 0, 0, 0, 0, 0, 0, 0 ],\  [0, 1, 0, 1, 2, 1, 2, 1, 0 ],\  [0, 2, 1, 1, 1, 2, 2, 0, 0 ],\  [0, 0, 2, 2, 2, 1, 0, 2, 0 ],\  [0, 0, 0, 0, 0, 1, 0, 2, 1 ],\  [0, 0, 0, 2, 0, 1, 2, 1, 0 ],\  [0, 0, 0, 2, 1, 0, 1, 1, 0 ],\  [0, 0, 0, 1, 1, 0, 0, 0, 0 ],\  [0, 0, 0, 0, 2, 2, 2, 0, 0 ]]  num\_black = 0  num\_white = 0  for i in range(9) :  for j in range(9) :  if stone[i][j] == 1 :  num\_black += 1    if stone[i][j] == 2 :  num\_white += 1  print('흑돌의 개수 : %d' % num\_black)  print('백돌의 개수 : %d' % num\_white) |

**7.**

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| stone = [[0, 0, 0, 0, 0, 0, 0, 0, 0 ],\  [0, 1, 0, 1, 2, 1, 2, 1, 0 ],\  [0, 2, 1, 1, 1, 2, 2, 0, 0 ],\  [0, 0, 2, 2, 2, 1, 0, 2, 0 ],\  [0, 0, 0, 0, 0, 1, 0, 2, 1 ],\  [0, 0, 0, 2, 0, 1, 2, 1, 0 ],\  [0, 0, 0, 2, 1, 0, 1, 1, 0 ],\  [0, 0, 0, 1, 1, 0, 0, 0, 0 ],\  [0, 0, 0, 0, 2, 2, 2, 0, 0 ]]  num\_black = 0  num\_white = 0  for i in range(9) :  for j in range(9) :  if stone[i][j] == 1 :  print('%3s' % '●', end = '')  elif stone[i][j] == 2 :  print('%3s' % '○', end = '')  else :  print('%3s' % '×', end = '')    print() |

**8.**

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| stone = [[0, 0, 0, 0, 0, 0, 0, 0, 0 ],\  [0, 1, 0, 1, 2, 1, 2, 1, 0 ],\  [0, 2, 1, 1, 1, 2, 2, 0, 0 ],\  [0, 0, 2, 2, 2, 1, 0, 2, 0 ],\  [0, 0, 0, 0, 0, 1, 0, 2, 1 ],\  [0, 0, 0, 2, 0, 1, 2, 1, 0 ],\  [0, 0, 0, 2, 1, 0, 1, 1, 0 ],\  [0, 0, 0, 1, 1, 0, 0, 0, 0 ],\  [0, 0, 0, 0, 2, 2, 2, 0, 0 ]]  num\_black = 0  num\_white = 0  print(' ' \* 4, end='')  for i in range(9) :  print('%02d' % (i+1), end = ' ')  print()  for i in range(9) :  print('%02d' % (i+1), end = '')  for j in range(9) :  if stone[i][j] == 1 :  print('%3s' % '●', end = '')  elif stone[i][j] == 2 :  print('%3s' % '○', end = '')  else :  print('%3s' % '×', end = '')    print() |

**9.**

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| --- |
| stone = [[0, 0, 0, 0, 0, 0, 0, 0, 0 ],\  [0, 1, 0, 1, 2, 1, 2, 1, 0 ],\  [0, 2, 1, 1, 1, 2, 2, 0, 0 ],\  [0, 0, 2, 2, 2, 1, 0, 2, 0 ],\  [0, 0, 0, 0, 0, 1, 0, 2, 1 ],\  [0, 0, 0, 2, 0, 1, 2, 1, 0 ],\  [0, 0, 0, 2, 1, 0, 1, 1, 0 ],\  [0, 0, 0, 1, 1, 0, 0, 0, 0 ],\  [0, 0, 0, 0, 2, 2, 2, 0, 0 ]]  while True :  X = int(input('X축 좌표값을 입력하세요(1~9, 종료 시 -1 입력) : '))  if X == -1 :  break  Y = int(input('Y축 좌표값을 입력하세요(1~9, 종료 시 -1 입력) : '))  if Y == -1 :  break    if stone[Y-1][X-1] == 1 :  print('흑돌')  elif stone[Y-1][X-1] == 2 :  print('백돌')  else :  print('돌없음')  print('종료되었습니다!') |