

Python Reference

#6.2

```
cards = []
```

```
result = 0
```

```
for i in range(5):
```

```
    cards.append(input())
```

```
for i in range(5):
```

```
    if cards[i] == 'A':
```

```
        result += 1
```

```
    elif cards[i] == 'J':
```

```
        result += 11
```

```
    elif cards[i] == 'Q':
```

```
        result += 12
```

```
    elif cards[i] == 'K':
```

```
        result += 13
```

```
    elif cards[i] == '10':
```

```
        result += 10
```

```
    else:
```

```
        result += eval(cards[i])
```

```
print(result)
```

#6.4

```
size = 10
```

```
sample = []
```

```
count = [0]*size
```

```
for i in range(size):
```

```
    num = int(input())
```

```
    sample.append(num)
```

```
    count[sample.index(num)] += 1
```

```
num_occu = max(count)
```

```
print(sample[count.index(num_occu)])
```

```
print(num_occu)
```

Python Reference

#7.2

```
tup1 = ()
```

```
tup2 = ()
```

```
print("Create tuple1:")
```

```
while True:
```

```
    num = eval(input())
```

```
    if num == -9999:
```

```
        break
```

```
    tup1 += (num,)
```

```
print("Create tuple2:")
```

```
while True:
```

```
    num = eval(input())
```

```
    if num == -9999:
```

```
        break
```

```
    tup2 += (num,)
```

```
tup_comb = tup1 + tup2
```

```
print("Combined tuple before sorting:", tup_comb)
```

```
lst_comb = list(tup_comb)
```

```
print("Combined list after sorting:", sorted(lst_comb))
```

Python Reference

#7.4

```
num = set()
```

```
while True:
```

```
    inp = eval(input())
```

```
    if inp == -9999:
```

```
        break
```

```
    num.add(inp)
```

```
print("Length:", len(num))
```

```
print("Max:", max(num))
```

```
print("Min:", min(num))
```

```
print("Sum:", sum(num))
```

Python Reference

#8.2

```
total = 0
```

```
string = input()
```

```
for i in range(0,len(string)):
```

```
    num = ord(string[i])
```

```
    print("ASCII code for '{:s}' is {:d}" .format(string[i], num))
```

```
    total += num
```

```
print(total)
```

#8.4

```
st = input()
```

```
str1 = st.upper()
```

```
print(str1)
```

```
str2 = st.title()
```

```
print(str2)
```

#9.2

```
with open('read.txt') as f:
    data=f.read()
sum=0
num=data.split(' ')
for i in range(len(num)):
    sum+=int(num[i])
print(sum)
```

#另一種寫法

```
with open('read.txt') as f:
    data=f.read()
num=data.split(' ')
for i in range(len(num)):
    num[i]=int(num[i])
print(sum(num))
```

#9.4

```
data = []
with open('read.txt','r') as file:
    for line in file:
        print(line)
        tmp = line.strip('\n').split(' ')
        tmp = [tmp[0], eval(tmp[1]), eval(tmp[2])]
        data.append(tmp)

name = [data[x][0] for x in range(len(data))]
height = [data[x][1] for x in range(len(data))]
weight = [data[x][2] for x in range(len(data))]

print('Average height: {:.2f}'.format(sum(height)/len(height)))
print('Average weight: {:.2f}'.format(sum(weight)/len(weight)))

max_h = max(height)
max_w = max(weight)
print('The tallest is {s} with {:.2f}cm'.format(name[height.index(max_h)], max_h))
print('The heaviest is {s} with {:.2f}kg'.format(name[weight.index(max_w)], max_w))
```