In [3]:
```
value_1='5'
value_2='5-2-10-10'.split('-')[-1]
print('5-2-10-10'.split('-'))
print(int(value_1)*3+float(value_2))
```

```
['5', '2', '10', '10']
25.0
```

In [38]:
```
country_code={"america":1,"korea":86,"china":86,"japan":81,}
print(country_code.values())

print(country_code)
print(country_code.keys())
print(85 in country_code.values())
print("korea"in country_code.keys())
```

```
dict_values([1, 86, 86, 81])
{'america': 1, 'korea': 86, 'china': 86, 'japan': 81}
dict_keys(['america', 'korea', 'china', 'japan'])
False
True
```

In [53]:
```
a = 0
midterm_set = set([1, 5, 7, 4, 3, 2, 1, 1, 2, 3])
for i in midterm_set:
    a = a + i
print(a)
```

```
22
```

In [13]:
```
a = [3, "apple", 2016, 4]
b=a.pop(0)
print(a)
c = a.pop(1)
print(a)
print(b + c)
```

```
['apple', 2016, 4]
['apple', 4]
2019
```

In [29]:
```
mylist=['pen','pencil','sharp']
list(enumerate(mylist))
print(result)
k='&'.join(mylist)
print(k.upper().split('&'))
```

```
[(0, 'pen'), (1, 'pencil'), (2, 'sharp')]
['PEN', 'PENCIL', 'SHARP']
```

In [21]:
```
mylist2=[i.upper() for i in mylist]
print(mylist)
```

```
['pen', 'pencil', 'sharp']
```

In [25]:
```
d2={i:j for i,j in enumerate(mylist)}
print(d2)
d3={j:i for i,j in enumerate(mylist)}
print(d3)
```

```
{0: 'pen', 1: 'pencil', 2: 'sharp'}
{'pen': 0, 'pencil': 1, 'sharp': 2}
```

In [47]:
```
animal = ['Fox', 'Dog', 'Cat', 'Monkey', 'Horse', 'Panda', 'Owl']
ani2=[i for i in animal if 'o'not in i.lower()]
print(ani2)
```

```
['Cat', 'Panda']
```

In [50]:
```
a="my dog has brown eyes, my dog is cute"
b=a.split()
print(b)
d2={j:i for i,j in enumerate(b)}
print(d2)
d3={j:i for i,j in enumerate(a.split())}
print(d3)
```

```
['my', 'dog', 'has', 'brown', 'eyes,', 'my', 'dog', 'is', 'cute']
{'my': 5, 'dog': 6, 'has': 2, 'brown': 3, 'eyes,': 4, 'is': 7, 'cute': 8}
{'my': 5, 'dog': 6, 'has': 2, 'brown': 3, 'eyes,': 4, 'is': 7, 'cute': 8}
```

In [55]:
```
d1={'a':1,'b':2,'c':3}
d2={j:i for i,j in d1.items()}
print(d2)
print(d1.items())
```

```
{1: 'a', 2: 'b', 3: 'c'}
dict_items([('a', 1), ('b', 2), ('c', 3)])
```

In [62]:
```
str1=input()
count1={}
for i in str1:
        count1[i]=count1.get(i,0)+1 #count1[i]=count[i]+1
print(count1)
```

```
ssss nn ss
{'s': 6, ' ': 2, 'n': 2}
```

In [61]:
```
k=list(count1.items())
k.sort()
print(k)
count2={i:j for i,j in k}
print(count2)
```

```
[(' ', 1), ('d', 1), ('e', 1), ('h', 1), ('l', 3), ('o', 2), ('r', 1), ('w', 1)]
{' ': 1, 'd': 1, 'e': 1, 'h': 1, 'l': 3, 'o': 2, 'r': 1, 'w': 1}
```

In [65]:
```
str2=input("머리글자를 만들 문장을 입력하세요")

acr1=[i[0] for i in str2.upper().split()]
print(''.join(acr1))
```

```
머리글자를 만들 문장을 입력하세요hello world
HW
```

In [76]:
```
str3=input()

result={"alpha":0,"digit":0,"space":0}
for i in str3:
    if i.isalpha():
        result["alpha"]=result["alpha"]+1
    elif i. isdigit():
        result["digit"]=result["digit"]+1
    elif i.isspace():
            result["space"]=result["space"]+1
print(result)
```

```
aaaa 111 bbb ccc
{'alpha': 10, 'digit': 3, 'space': 4}
```

In [78]:
```
text=''' Israel's war cabinet is convening to discuss a potential response to Iran's unprecedented weekend strikes, which the Israeli military and allies almost entirely intercepted.'''
k=text.split()
print(k)
cnt=0
for i in k:
     if(i.lower()=="the"):
            cnt+=1
print(cnt)
#단어 몇개 나타나는지 세는것
dict2={}
for i in text.split():
    dict2[i]=dict2.get(i,0)+1
print(dict2)
```

```
["Israel's", 'war', 'cabinet', 'is', 'convening', 'to', 'discuss', 'a', 'potential', 'response', 'to', "Iran's", 'unprecedented', 'weekend', 'strikes,', 'which', 'the', 'Israeli', 'military', 'and', 'allies', 'almost', 'entirely', 'intercepted.']
1
{"Israel's": 1, 'war': 1, 'cabinet': 1, 'is': 1, 'convening': 1, 'to': 2, 'discuss': 1, 'a': 1, 'potential': 1, 'response': 1, "Iran's": 1, 'unprecedented': 1, 'weekend': 1, 'strikes,': 1, 'which': 1, 'the': 1, 'Israeli': 1, 'military': 1, 'and': 1, 'allies': 1, 'almost': 1, 'entirely': 1, 'intercepted.': 1}
```

In [75]:
```
d2={"JOHN":"jonh@GMAIL.com","KANG":"jykang@AJOU.ac.kr","kim":"kim@naver.com"}
d3={i.upper():j.lower() for i,j in d2.items()}
print(d3)
```

```
{'JOHN': 'jonh@gmail.com', 'KANG': 'jykang@ajou.ac.kr', 'KIM': 'kim@naver.com'}
```

In [74]:
```
a1=[100,200,300,400,500]
a2=["kang","park","kim","lee","lim"]
m=dict(zip(a1,a2))
print(m)
```

```
{100: 'kang', 200: 'park', 300: 'kim', 400: 'lee', 500: 'lim'}
```

In [ ]: