



## Problem 2

```
In [31]: import numpy as np

A = np.arange(1,10).reshape(3,3)
v = np.arange(1,4).reshape(3,1)

print("A ="):print(A)
print()
print("v ="):print(v)
```

```
A =
[[1 2 3]
 [4 5 6]
 [7 8 9]]
```

```
v =
[[1]
 [2]
 [3]]
```

## Problem 3

```
In [32]: w = np.arange(1,4)
B = np.arange(1,7).reshape(2,3)

D = {"A":A, "v":v, "w":w, "B":B} #행렬과 벡터의 사전 생성
L = list(Mtos.keys())           #D에서 key값들만 모은 list 생성

for i in range(len(Mtos)):
    print("{} =".format(L[i]));print(Mtos[L[i]]);print("{} .shape = {}".format(L[i],Mtos[L[i]].shape))
    print()
```

```
A =
[[1 2 3]
 [4 5 6]
 [7 8 9]]
A.shape = (3, 3)
```

```
v =
[[1]
 [2]
 [3]]
v.shape = (3, 1)
```

```
w =
[1 2 3]
w.shape = (3,)
```

```
B =
[[1 2 3]
 [4 5 6]]
B.shape = (2, 3)
```