고급통계프로그래밍 과제 #2

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Ex 3.4

```
In [1]:
```

```
def do_twice(f):
    f()
    f()
```

In [2]:

```
#3.4-1
def print_spam():
    print ('spam')

do_twice(print_spam) #test
```

spam spam

In [3]:

```
#3.4-2
def do_twice(f,x): #two arguments
  f(x)
  f(x)
```

In [4]:

```
#3.4-3
def print_twice(a):
  for i in range(2): #2회 실행
  print(a)
print_twice('spam')
```

spam spam

In [5]:

```
#4.4
do_twice(print_twice, 'spam')
```

spam

spam

spam

spam

```
In [6]:
```

Ex 5.3

In [7]:

```
#5.3-1
def check_fermat(a,b,c,n):

# a, b, c, n 인자로 페르마의 정리 성립 여부 판단
if n>2 and a**n + b**n == c**n:
    print('Holy smokes, Fermat was wrong!') #성립X
else:
    print("No, that doesn't work.") #성립0
```

In [8]:

```
check_fermat(4,6,3,2) #check
```

No, that doesn't work.

In [9]:

```
#5.3-2
def check_fermat_2():

#a, b, c, n값 입력 후 정수변환
a = int(input())
b = int(input())
c = int(input())
n = int(input())

# check_fermat 으로 페르마의 정리 만족여부 검사한 결과 return
return check_fermat(a,b,c,n)
```

In [10]:

check_fermat_2() #check

4
3
5
6
No, that doesn't work.