In [7]:
```python
#PROBLEM 1
y=input().split(",")
d=[]
for x in y:
    d.append(int(x))

Q=[]
c=50
h=30
for no in d:
    q=(2*c*no)/h
    f=int(q**(1/2))
    Q.append(str(f))
print(','.join(Q))
```

```
100,150,180
18,22,24
```

In [8]:
```python
#PROBLEM 2
row_num = int(input("Input number of rows: "))
col_num = int(input("Input number of columns: "))
multi_list=[]
for row in range(row_num):
    a=[]
    for col in range(col_num):
        a.append(col*row)
    multi_list.append(a)


print(multi_list)
```

```
Input number of rows: 3
Input number of columns: 3
[[0, 0, 0], [0, 1, 2], [0, 2, 4]]
```

In [18]:
```python
#PROBLEM 3
mylist = input("Enter list ")
d= mylist.split(",")
d.sort()
print(','.join(d))
```

```
 enter list without,bags,hello
bags,hello,without
```

```
In [3]: my_list=input("Enter your string ")
        d=my_list.split(' ')
        d.sort()
        this_dict={}
        for i in d:
            y=d.count(i)
            this_dict.update( {i:y} )

        print(this_dict)
```

```
enter ur string a 2 3 d 2
{'2': 2, '3': 1, 'a': 1, 'd': 1}
```

```
In [25]: class Practice:
             def equation(self):
                 y=input().split(",")
                 d=[]
                 for x in y:
                     d.append(int(x))

                 Q=[]
                 c=50
                 h=30
                 for no in d:
                     q=(2*c*no)/h
                     f=int(q**(1/2))
                     Q.append(str(f))
                 print(','.join(Q))

             def array(self):
                 row_num = int(input("Input number of rows: "))
                 col_num = int(input("Input number of columns: "))
                 multi_list=[]
                 for row in range(row_num):
                     a=[]
                     for col in range(col_num):
                         a.append(col*row)
                     multi_list.append(a)

                 print(multi_list)

             def sorting(self):
                 mylist = input("Enter list ")
                 d= mylist.split(",")
                 d.sort()
                 print(','.join(d))

             def freq(self):
                 my_list=input("Enter your string ")
                 d=my_list.split(' ')
                 d.sort()
                 this_dict={}
                 for i in d:
                     y=d.count(i)
                     this_dict.update( {i:y} )

                 print(this_dict)

         prac= Practice()

         prac.sorting()
```

```
 enter list f,t,e,u,g,w,q
e,f,g,q,t,u,w
```

In [ ]: