

In [4]:

```
1 #1
2 import math
3 C=50
4 H=30
5
6 D=list(map(int,input().split(",")))
7
8 for i in range(len(D)):
9     Q=int(math.sqrt((2*C*D[i])/H))
10    if i==len(D)-1:
11        print(Q)
12    else:
13        print(Q,end=",")
```

100,150,180

18,22,24

In [9]:

```
1 #2
2 x=int(input())
3 y=int(input())
4 a=[[0 for i in range(y)] for i in range(x)]
5
6 for i in range(x):
7     for j in range(y):
8         a[i][j]=i*j
9 print(a)
```

3

5

[[0, 0, 0, 0, 0], [0, 1, 2, 3, 4], [0, 2, 4, 6, 8]]

In [11]:

```
1 #3
2
3 l=list(input().split(","))
4 k=sorted(l)
5 for i in range(len(k)):
6     if i==len(k)-1:
7         print(k[i])
8     else:
9         print(k[i],end=",")
10
```

without,hello,bag,world

bag,hello,without,world

In [14]:

```
1 # 4
2
3
4 l=list(input().split(" "))
5
6 k=sorted(list(set(l)))
7 for i in range(len(k)):
8     if i==len(k)-1:
9         print(k[i])
10    else:
11        print(k[i],end=" ")
12
13
```

hello world and practice makes perfect and hello world again
again and hello makes perfect practice world

In [15]:

```
1 # 5
2
3 l=input()
4
5 l_c=0
6 d_c=0
7
8 for i in l:
9     if i.isnumeric():
10        d_c+=1
11    elif i.isalpha():
12        l_c+=1
13 print("Letters:",l_c)
14 print("Digits:",d_c)
15
```

hello world! 123
Letters: 10
Digits: 3

In [22]:

```
1 # 6
2
3
4 l=list(input().split(","))
5 ver="ABCDEFGHIJKLMNOPQRSTUVWXYZ"
6 spec="\"!@#$%^&*()-_+={[]|\\;:'\",.<>/?\""
7 num="1234567890"
8 for i in range(len(l)):
9     if 6<= len(l[i]) and len(l[i])<=12 :
10         a=any(j in ver for j in l[i])
11         b=any(j in ver.lower() for j in l[i])
12         c=any(j in spec for j in l[i])
13         d=any(j in num for j in l[i])
14
15
16         if a and b and c and d:
17             if i==len(l):
18                 print(l[i])
19             else:
20
21                 print(l[i])
22
23
```

ABd1234@1,a F1#,2w3E*,2We3345

ABd1234@1