In [1]:
```
import numpy as np
```

In [2]:
```
a=np.ones((3,3),dtype=int)
print(a)
```

In [3]:
```
b=np.array([1,2,3,4])
for i in b:
    print(i)
```

```
1
2
3
4
```

In [40]:
```
import collections as cl
c=np.array([1,2,3,1,3,4,5,6,3,6,3])
x=cl.Counter(c)
print(x)
```

```
Counter({3: 4, 1: 2, 6: 2, 2: 1, 4: 1, 5: 1})
```

In [37]:
```
k=int(input('Enter'))
g=np.count_nonzero(c==k)
print(g)
```

```
Enter2
1
```

In [41]:
```
for a , b in x.items() :
    if b<4:
        print(a)
```

```
1
2
4
5
6
```

In [26]:
```
v={}
for i in c:
    if i not in v:
        v[i]=1
    else:
        v[i]+=1
print(v)
```

```
{1: 2, 2: 1, 3: 4, 4: 1, 5: 1, 6: 2}
```

In [34]:
```
x=cl.Counter(c<4)
print(x)
```

```
Counter({True: 7, False: 4})
```

In [ ]:
```
x=np.min(c)
print(x)
```

In [ ]:
```
y=np.max(c)
print(y)
```

In [5]:
```
h=int(input('Size'))
l=np.zeros(h,dtype=int)
for i in range(h):
    c=int(input('Value'))
    l[i]=c
print(l)
```

```
Size2
Value1
Value2
[1 2]
```

In [6]:
```
n=np.array([1,2,1,3,4,5,])
```

In [7]:
```
v={}
for i in n:
    if i not in v:
        v[i]=1
    else:
        v[i]+=1
print(v)
```

```
{1: 2, 2: 1, 3: 1, 4: 1, 5: 1}
```

In [8]:
```
x=np.array([1,2,3,4,5,3,2,14,5,3])
for i in range(4):
    y=int(input('value'))
    j=y in x
    print(j)
```

```
value1
True
value2
True
value13
False
value1
True
```

In [13]:
```
n=int(input())
for i in range(1,n+1):
    for j in range(1,11):
        print(i,'*',j,'=',i*j)
    print('--------------')
```

```
10
1 * 1 = 1
1 * 2 = 2
1 * 3 = 3
1 * 4 = 4
1 * 5 = 5
1 * 6 = 6
1 * 7 = 7
1 * 8 = 8
1 * 9 = 9
1 * 10 = 10
--------------
2 * 1 = 2
2 * 2 = 4
2 * 3 = 6
2 * 4 = 8
2 * 5 = 10
2 * 6 = 12
2 * 7 = 14
```

In [ ]: