

▼ *task 1**[0,7,2,3,11,1,14,10,25,16] swap*

```
l = [7,0,3,2,1,11,10,14,16,25]
for i in range(len(l)):
    if i%2==1:
        l[i-1],l[i]=l[i],l[i-1]
print(l)
```

[0, 7, 2, 3, 11, 1, 14, 10, 25, 16]

▼ *task 2**[7,0,3,2,1,11,1,41,61,52] reverse*

+ Code
+ Text

```
l = [7,0,3,2,1,11,10,14,16,25]
for i in range(len(l)):
    n=l[i]
    r=0
    while n!=0:
        d=n%10
        r=r*10+d
        n=n//10
    else:
        l[i]=r
        r=0
print(l)
```

[7, 0, 3, 2, 1, 11, 1, 41, 61, 52]

▼ *task 3**[14,0,6,4,1,22,10,14,16,25] prime*

```
l = [7,0,3,2,1,11,10,14,16,25]
for i in range(len(l)):
    for j in range(2,l[i]):
        if l[i]>1==True:
            if l[i]%j==0:
                break
    else:
        l[i]*=l[i]
print(l)
```

[49, 0, 9, 4, 1, 121, 10, 14, 16, 25]

▼ *task 4**lst = [[7,0,3],[2,1,11],[10,14,16]]*

```
l = [7,0,3,2,1,11,10,14,16]
l1=[]
l2=[]
count=0
for i in range(len(l)):
    count+=1
    l1.append(l[i])
    if count==3:
        l2.append(l1)
        count=0
        l1=[]
else:
    print(l2)
```

[[7, 0, 3], [2, 1, 11], [10, 14, 16]]

▼ *task 5**each item count*

3 -&gt; 3

2 -&gt; 4

5 -&gt; 2

4 -&gt; 3

1 -&gt; 3

6 -&gt; 2

7 -&gt; 1

```
l = [3,2,5,4,1,2,6,6,4,3,2,7,5,4,3,2,1,1]
l1=[]
for i in l:
    if i not in l1:
        print(i,'->',l.count(i))
        l1.append(i)

3 -> 3
2 -> 4
5 -> 2
4 -> 3
1 -> 3
6 -> 2
7 -> 1
```

▼ *task 6*

3 -&gt; 9

2 -&gt; 8

5 -&gt; 10

4 -&gt; 12

1 -&gt; 3

6 -&gt; 12

7 -&gt; 7

```
l = [3,2,5,4,1,2,6,6,4,3,2,7,5,4,3,2,1,1]
l1=[]
for i in l:
    if i not in l1:
        print(i,'->',l.count(i)*i)
        l1.append(i)

3 -> 9
2 -> 8
5 -> 10
4 -> 12
1 -> 3
6 -> 12
7 -> 7
```

▼ *task 7**[9,6,8,3,3,6,2]*

```
l = [171,258,503,102,786,924,245]
for i in range(len(l)):
    a=l[i]
    while a>9:
        b=0
        while a!=0:
            b+=a%10
            a//=10
        a=b
    l[i]=a
print(l)
```

[9, 6, 8, 3, 3, 6, 2]

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