

In [1]:

```
a=[7, 3, 5, 2, 1, 9, 10, 4, 8]
b=[]
c=[]
n=int(input("请输入一个数N: "))
def f(v, num):
    for item in a:
        if item<=num:
            b.append(item)
        else:
            c.append(item)
    b.append(num)
    b.extend(c)
    return b
print(f(a, n))
```

请输入一个数N: 6

[3, 5, 2, 1, 4, 6, 7, 9, 10, 8]

In [3]:

```
num=int(input("请输入一个数: "))
def f(n):
    a=[]
    i=2
    while i<=n:
        if n%i==0:
            n=n/i
            a.append(i)
            #print(i)
        else:
            i=i+1
    #print(a)
    s1=set(a)
    a2=list(s1)
    #print(a2)
    for item in a2:
        if item==a2[len(a2)-1]:
            if a.count(item)==1:
                print(str(item), end="")
            else:
                print(str(item)+"^"+str(a.count(item)), end="")
        else:
            if a.count(item)==1:
                print(str(item)+"+", end="")
            else:
                print(str(item)+"^"+str(a.count(item))+"+", end="")
    f(num)
```

请输入一个数: 48

2^4+3

In []:

```
import os,time
n= int(input("请输入n秒后关机: "))
def f(N):
    print("设备将于"+str(N)+"秒后关机")
    os.system('shutdown -s -t %d' %N )
f(n)
```