

Challenge 1

In [26]:

```
strings=[]
for i in range(1,11):
    user=input("Enter a word -> ")
    strings.append(user)
for i in range(9,-1,-1):
    print(strings[i],end=" ")
```

```
Enter a word -> Praveen
Enter a word -> Kumar
Enter a word -> is
Enter a word -> a
Enter a word -> dedicated
Enter a word -> student
Enter a word -> and
Enter a word -> a
Enter a word -> strong
Enter a word -> man
man strong a and student dedicated a is Kumar Praveen
```

Challenge 2

In [27]:

```
print(strings[::-1])
```

```
['man', 'strong', 'a', 'and', 'student', 'dedicated', 'a', 'is', 'Kumar', 'P
raveen']
```

Challenge 3

In [28]:

```
alist=[]
for i in range(1,11):
    val=input("Enter a word -> ")
    alist.append(val)
```

```
Enter a word -> Lionel
Enter a word -> messi
Enter a word -> is
Enter a word -> the
Enter a word -> greatest
Enter a word -> of
Enter a word -> all
Enter a word -> time
Enter a word -> Lionel
Enter a word -> messi
```

Challenge 4

In [69]:

```
blist=[]
for item in alist:
    if(alist.count(item)==1):
        blist.append(item)
print(blist)
```

```
['is', 'the', 'greatest', 'of', 'all', 'time']
```

Challenge 5

In [52]:

```
blist.sort()
print(blist,"<- is sorted alphabetically")
```

```
['all', 'greatest', 'is', 'of', 'the', 'time'] <- is sorted alphabetically
```

Challenge 6

In [70]:

```
for i in range(len(blist)-1,-1,-1):
    print(blist.pop(i))
```

```
time
all
of
greatest
the
is
```

Challenge 7

In [72]:

```
for num in range(1500,2701,5): #Since step is 5 it gives numbers divisble by 5.
    if(num%7==0):
        print(num)
```

1505
1540
1575
1610
1645
1680
1715
1750
1785
1820
1855
1890
1925
1960
1995
2030
2065
2100
2135
2170
2205
2240
2275
2310
2345
2380
2415
2450
2485
2520
2555
2590
2625
2660
2695

Challenge 8

In [76]:

```
n=int(input("Enter the value of N= "))
for i in range(1,31):
    if(i%n!=0):
        print(i)
```

Enter the value of N= 4

```
1
2
3
5
6
7
9
10
11
13
14
15
17
18
19
21
22
23
25
26
27
29
30
```

Challenge 9

In [84]:

```
firstlist=[[1,2,3],[4,5,6],[7,8,9]]
secondlist=[[19,18,17],[16,15,14],[13,12,11]]
thirdlist=[[0,0,0],[0,0,0],[0,0,0]]
for i in range(len(firstlist)):
    for j in range(len(firstlist[0])):
        thirdlist[i][j]=firstlist[i][j]+secondlist[i][j]

for item in thirdlist:
    print(item)
```

```
[20, 20, 20]
[20, 20, 20]
[20, 20, 20]
```

Challenge 10

In [93]:

```
mlist=[]
ins=[]
for j in range(3):
    for i in range(3):
        val=int(input("Enter val = "))
        ins.append(val)
    mlist.append(ins)
    ins=[]
for item in mlist:
    print(item)
```

```
Enter val = 1
Enter val = 2
Enter val = 3
Enter val = 4
Enter val = 5
Enter val = 6
Enter val = 7
Enter val = 8
Enter val = 9
[1, 2, 3]
[4, 5, 6]
[7, 8, 9]
```