In [13]:
```
def pattern(n):
      k = 2 * n - 2
      for i in range(0,n):
           for j in range(0,k):
               print(end=" ")
           k = k - 1
           for j in range(0, i+1):
                print("*", end=" ")
           print("\r")
n=int(input("Enter the Number: "))
pattern(n)

```

```
Enter the Number: 8
              *
             * *
            * * *
           * * * *
          * * * * *
         * * * * * *
        * * * * * * *
       * * * * * * * *
```

In [14]:
```
def fibonacci(n):
    a, b, counter = 0, 1, 0
    while True:
        if (counter > n): return
        yield a
        a, b = b, a + b
        counter += 1
m=int(input("Enter the Number: "))
f = fibonacci(m)
for x in f:
    print(x)

```

```
Enter the Number: 13
0
1
1
2
3
5
8
13
21
34
55
89
144
233
```

In [3]:
```
def Palindrome(s):
    return s == s[::-1]
s = str(input("Enter the String: "))
ans = Palindrome(s)

if ans:
    print("Is Palindrome")
else:
    print("Not a Palindrome")
```

```
Enter the String: aba
Is Palindrome
```

In [7]:
```
golds = {"Italy": 12, "USA": 33, "Brazil": 15, "China": 27, "Spain": 19,"Can
list = [(k, v) for k, v in golds.items()]
print(list)
def Convert(list, di):
    di = dict(list)
    return di
dictionary = {}
print (Convert(list, dictionary))
```

```
[('Italy', 12), ('USA', 33), ('Brazil', 15), ('China', 27), ('Spain', 19), ('Ca
nada', 22), ('Argentina', 8), ('England', 29)]
{'Italy': 12, 'USA': 33, 'Brazil': 15, 'China': 27, 'Spain': 19, 'Canada': 22,
'Argentina': 8, 'England': 29}
```

In [2]:
```
golds = {"Italy": 114, "Germany": 782, "Pakistan": 10, "Sweden": 6,"USA": 26
sorted_golds = sorted(golds)
print(golds)
```

```
{'Italy': 114, 'Germany': 782, 'Pakistan': 10, 'Sweden': 6, 'USA': 2681, 'Zimba
bwe': 8, 'Greece': 111, 'Mongolia': 24, 'Brazil': 108, 'Croatia': 34, 'Algeri
a': 15, 'Switzerland': 323, 'Yugoslavia': 87, 'China': 526, 'Egypt': 26, 'Norwa
y': 477, 'Spain': 133, 'Australia': 48, 'Slovakia': 29, 'Canada': 22, 'New Zeal
and': 100, 'Denmark': 180, 'Chile': 13, 'Argentina': 70, 'Thailand': 24, 'Cub
a': 209, 'Uganda': 7, 'England': 806, 'Ukraine': 122, 'Bahamas': 12}
```

In [9]:
```
golds = {"Italy": 12, "USA": 33, "Brazil": 15, "China": 27, "Spain": 19,"Can
golds1 = (sorted(golds.items()))
print(golds1)
print()
golds1.reverse()
print(golds1)
```

```
[('Argentina', 8), ('Brazil', 15), ('Canada', 22), ('China', 27), ('England', 2
9), ('Italy', 12), ('Spain', 19), ('USA', 33)]

[('USA', 33), ('Spain', 19), ('Italy', 12), ('England', 29), ('China', 27), ('C
anada', 22), ('Brazil', 15), ('Argentina', 8)]
```

In [ ]:
```
1
```