```
In [5]: import array
         a = array.array("i",[1,2,3,4])
         print(type(a))
         <class 'array.array'>
         Arrays
In [ ]:
In [6]: a = array("i",[1,2,3,4])
         print(type(a))
                                                    Traceback (most recent call last)
         TypeError
         Input In [6], in <cell line: 1>()
         ----> 1 a = array("i",[1,2,3,4])
               2 print(type(a))
         TypeError: 'module' object is not callable
 In [8]: |print(a[0])
         1
In [9]: print(a[1])
         2
In [11]: | print(a[])
           Input In [11]
             print(a[])
         SyntaxError: invalid syntax
In [12]: print(a[:])
         array('i', [1, 2, 3, 4])
In [13]: print(a[2:4])
```

array('i', [3, 4])

```
In [14]: print(a[0][0])
         TypeError
                                                  Traceback (most recent call last)
         Input In [14], in <cell line: 1>()
         ----> 1 print(a[0][0])
         TypeError: 'int' object is not subscriptable
In [15]: from array import *
         arr = array('i',[1,2,3,4])
         print(type(arr))
         <class 'array.array'>
         list
In [16]: list1 = [1,2,3,4]
         append
In [17]: list1.append(10)
In [18]: print(list1)
         [1, 2, 3, 4, 10]
         clear
In [19]: list1.clear()
In [20]: print(list1)
         []
         copy
In [21]: x = list1.copy
```

```
In [22]: print(x)
         <built-in method copy of list object at 0x000002FE29FA6CC0>
In [23]: list1 = [1,2,3,4]
         x = list1.copy()
         print(x)
         [1, 2, 3, 4]
         count
In [24]: list1.count('a')
Out[24]: 0
In [25]: list1.count(1)
Out[25]: 1
         pop
In [26]: print(list1.pop())
In [27]: # pop removes and returns the element
In [28]: print(list1.pop(1))
         2
In [29]: |print(list1)
         [1, 3]
         reverse
In [30]: print(list1.reverse())
         None
```

```
In [31]: list1.reverse()
In [32]: |print(list1)
         [1, 3]
In [33]: list1.reverse()
         print(list1)
         [3, 1]
         sort
In [34]: list1.sort()
         print(list1)
         [1, 3]
In [35]: # only homogenous elements are sorted
In [36]: lst = [1,5,6,2,8,3]
         print(lst.sort(reverse=True))
         None
In [37]: print(lst)
         [8, 6, 5, 3, 2, 1]
         remove
In [38]: # It will remove the 1st occurrence of element
In [39]: lst.remove(2)
In [40]: print(lst)
         [8, 6, 5, 3, 1]
```

```
In [55]: n = int(input())
         for i in range(n+1):
             for k in range(n-i):
                 print(" ",end=" ")
             for j in range(2*i-1):
                 print(" *",end="")
             print()
         4
         errors
         and Exception
In [56]: # error is of two types. logical and syntactical errors
         # we are responsible for this type of errors
         # logical errors occur at run time
         # and syntactical errors occur at compile time
In [57]: # try:
            x = 1/52
         except EOFError:
            print("end of file")
         # except IMPORT
           Input In [57]
             except IMPORT
         SyntaxError: invalid syntax
In [58]: # https://github.com/meh-sudhanshu/RGM
```

In [ ]: