```
In [1]:
         #LINEAR SEARCH ALGORITHM
         arr=[4,2,7,1,9,3,5]
         target=9
         found=False
         for i in range(len(arr)):
             if arr[i]==target:
                  print(f"Element {target} found at index {i}")
                  found=True
                  break
         else:
             print(F"Element {target} is not in array")
       Element 9 found at index 4
In [2]:
         #WITH USER INPUT
         lst=[]
         n=int(input("Enter number of elements:"))
         for j in range(0,n):
             element=int(input())
             lst.append(element)
         print("List:",lst)
         target=int(input("Enter the target:"))
         found=False
         for i in range(len(lst)):
             if lst[i]==target:
                  print(f"Element {target} found at index {i}")
                  found=True
                 break
         else:
             print(F"Element {target} is not in array")
       Enter number of elements:5
       1
       4
       6
       8
       43
       List: [1, 4, 6, 8, 43]
       Enter the target:3
       Element 3 is not in array
In [3]:
         #BINARY SEARCH ALGORITHM
         arr=[1,3,5,7,9,11,13,15,17,19]
         low=0
         high=len(arr)-1
         target=2
         found=False
         while(low<=high):</pre>
             mid=(low+high)//2
             if arr[mid]==target:
                  print(f"Element {target} is found at index {mid}")
                  break
             elif arr[mid]<target:</pre>
                  low=mid+1
             else:
                 high=mid-1
         else:
             print(f"Element {target} is not in array")
```