

Shell Sort

```
def shellSort(arr):  
    n = len(arr)  
    gap = n//2  
  
    while gap > 0:  
  
        for i in range(gap,n):  
  
            temp = arr[i]  
  
            j = i  
            while j >= gap and arr[j-gap] >temp:  
                arr[j] = arr[j-gap]  
                j -= gap  
            arr[j] = temp  
            gap //= 2  
  
arr = [ 12, 34, 54, 2, 3]  
  
n = len(arr)  
print ("Array before sorting:")  
for i in range(n):  
    print(arr[i],end=" ")  
  
shellSort(arr)  
  
print ("\nArray after sorting:")  
for i in range(n):  
    print(arr[i],end=" ")
```