Explanation:

insertion_sort function: Applies Insertion Sort to a subarray within a specified range, which is efficient for small or nearly sorted subarrays.

merge function: Merges two sorted halves of an array, similar to standard Merge Sort.

hybrid_sort function: Recursively divides the array and switches to Insertion Sort when the size of the subarray is below a specified threshold.

sort function: A helper function to call hybrid sort on the entire array.

Code:

```
definsertion sort(arr, left, right):
  """Sorts arr[left:right+1] using Insertion Sort."""
  for i in range(left + 1, right + 1):
     key = arr[i]
    j = i - 1
     while j \ge left and arr[j] \ge key:
       arr[j+1] = arr[j]
       i = 1
     arr[j + 1] = key
def merge(arr, left, mid, right):
  """Merges two sorted subarrays of arr."""
  n1 = mid - left + 1
  n2 = right - mid
  L = arr[left:mid + 1]
  R = arr[mid + 1:right + 1]
  i = j = 0
  k = left
  while i \le n1 and j \le n2:
     if L[i] \leq R[j]:
```

arr[k] = L[i]

```
i += 1
     else:
       arr[k] = R[j]
       j += 1
     k += 1
  while i < n1:
     arr[k] = L[i]
    i += 1
     k += 1
  while j < n2:
     arr[k] = R[j]
    j += 1
     k += 1
def hybrid sort(arr, left, right, threshold=32):
  """Performs Hybrid Sort by combining Merge Sort and Insertion Sort."""
  if left < right:
     if right - left + 1 <= threshold:
       insertion_sort(arr, left, right)
     else:
       mid = (left + right) // 2
       hybrid_sort(arr, left, mid, threshold)
       hybrid_sort(arr, mid + 1, right, threshold)
       merge(arr, left, mid, right)
def sort(arr):
  hybrid_sort(arr, 0, len(arr) - 1)
```

```
arr = [12, 11, 13, 5, 6, 7, 3, 15, 10, 8, 1, 4, 9, 2, 14]
print("Original array:", arr)
sort(arr)
print("Sorted array:", arr)
```