133. Sort an array of integers using the bubble sort technique. Analyze its time complexity using Big-O notation. Write the code

AIM: To osrt an array elements by using bubble sort

```
PROGRAM:
def bubble sort(nums):
  n = len(nums)
  for i in range(n):
    swapped = False
    for j in range(0, n - i - 1):
       if nums[j] > nums[j + 1]:
         nums[j], nums[j+1] = nums[j+1], nums[j]
         swapped = True
         if not swapped:
       break
  return nums
nums = [64, 34, 25, 12, 22, 11, 90]
print("Original array:", nums)
sorted nums = bubble sort(nums)
print("Sorted array:", sorted nums)
        Original array: [64, 34, 25, 12, 22, 11, 90]
        Sorted array: [11, 12, 22, 25, 34, 64, 90]
OUTPUT:
TIME COMPLEXITY:
BEST CASE: O(n)
AVERAGE CASE: O(n^2)
WORST CASE: O(n^2)
```