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Complete C# Unity Game Dev

Entrepreneurship and IP strate

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Student Corner

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main.py

```
1 def heap_data(nums, index, heap_size):
2     largest_num = index
3     left_index = 2 * index + 1
4     right_index = 2 * index + 2
5     if left_index < heap_size and nums[left_index] > nums[largest_num]:
6         largest_num = left_index
7
8     if right_index < heap_size and nums[right_index] > nums[largest_num]:
9         largest_num = right_index
10    if largest_num != index:
11        nums[largest_num], nums[index] = nums[index], nums[largest_num]
12        heap_data(nums, largest_num, heap_size)
13 def heap_sort(nums):
14     n = len(nums)
15     for i in range(n // 2 - 1, -1, -1):
16         heap_data(nums, i, n)
17     for i in range(n - 1, 0, -1):
18         nums[0], nums[i] = nums[i], nums[0]
19         heap_data(nums, 0, i)
20     return nums
21 user_input = input("Input numbers separated by a comma:\n").strip()
22 nums = [int(item) for item in user_input.split(',')]
23 heap_sort(nums)
24 print(nums)
```

input

Input numbers separated by a comma:
2,5,9,10,34,15
[2, 5, 9, 10, 15, 34]

...Program finished with exit code 0
Press ENTER to exit console.

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Counting Sort - Word

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Heap Sort:

A [Binary Heap](#) is a Complete Binary Tree where items are stored in a special order such that value in a parent node is greater(or smaller) than the values in its two children nodes. The former is called as max heap and the latter is called min-heap. The heap can be represented by a binary tree or array.

Heap sort is an in-place algorithm. Its typical implementation is not stable, but can be made stable.

Time Complexity:

Time complexity of heap sort is $O(\log n)$. Time complexity of createAndBuildHeap() is $O(n)$ and overall time complexity of Heap Sort is $O(n \log n)$.

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