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bucket_sort.py
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                                                                                     Page 1/1
2 # HSLU / ICS/AIML : Modul ADS : Algorithmen & Datenstrukturen
3 # Path : uebung09/al/aufgabe01
4 # Version: Tue Apr 15 11:57:57 CEST 2025
   from collections import deque
9
   def bucket_sort(sequence, n):
     Sorts the sequence.
12
13
     sequence: Sequence to be sorted.
     n: The upper-bound of all values in sequence: 0..(n-1). """
     buckets = [None] * n
17
     # TODO: Implement here Phase 1 ...
18
     pretty_print(buckets)
21
     # TODO: Implement here Phase 2 ...
22
23
25
   def pretty_print(buckets):
     print(str(buckets).replace("deque", "").replace("(", "").replace(")", ""))
26
27
29
   if __name__ == '__main__':
     my_list = [7, 1, 3, 7, 3, 7]
     sequence = deque(my_list)
     print (sequence)
33
     bucket_sort (sequence, 10)
     print (sequence)
35
     """ Session-Log:
     deque([7, 1, 3, 7, 3, 7])
[[], [1], [], [3, 3], [], [], [], [7, 7, 7], [], []]
deque([1, 3, 3, 7, 7, 7])
42
43
     ....
```