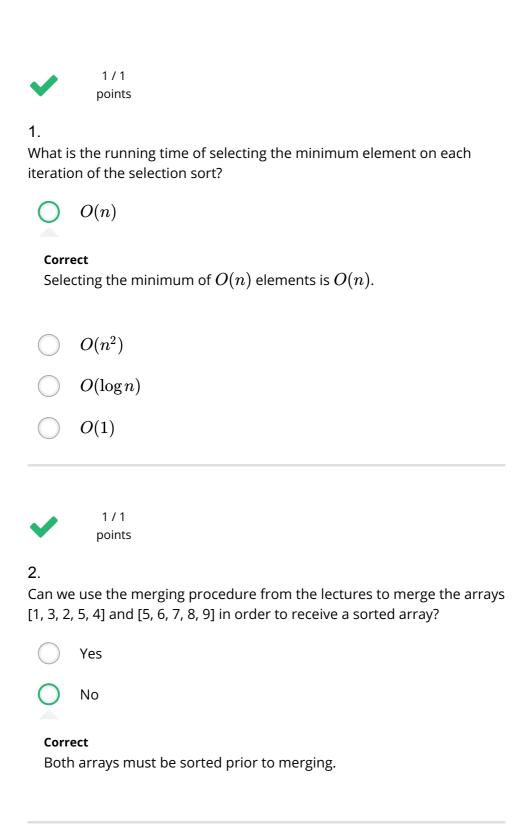
Sorting 4/4 points (100%)

Practice Quiz, 4 questions



/

1/1 points

How many operations are needed to merge two sorted arrays of sizes m and n respectively?

\sim			. •		
•	\sim	•	+ •	n	\sim
•	11				.,
ı,	\ ,		L I		_
_	_	_			$\overline{}$

4/4 points (100%)

Practice Quiz, 4 questions

O(1)



O(n+m)

Correct

Merge works in O(n+m).

- O(nm)
- $O(m \log n)$



1/1 points

4.

Can you use Count Sort to sort an array of positive real numbers which are less than 100, such as [0.572, 0.25, 2.34, 3.14159, 2.781828, 42], in O(n) time?

- Yes, because the numbers are bounded
- O No

Correct

Although the numbers in the array are bounded, Count Sort is not applicable, because it can only be applied to integer numbers: real numbers cannot play the role of indices of an array.





