

Question 1: it will be efficient to place stack elements at the start of the list because insertion and removal take _____ time.

- Variable
- Constant
- Inconsistent
- None of the above

Question 2: New items are added at the _____ of the stack.

- Bottom
- Middle
- Top
- Center

Question 3: If we want to find 3rd minimum element from an array of elements, then after applying buildHeap method, how many times deleteMin method will be called?

- 1
- 2
- 3
- 4

Question 4: An alternative name for the same object. A "nickname".

- Alias
- Array
- Ancestor
- Argument

Question 5: Searching of an element in an AVL tree take minimum _____ time (where n is number of nodes in AVL tree)

- $\log_2(n+1)$
- $\log_2(n+1) - 1$
- $1.44 \log_2 n$
- $1.66 \log_2 n$

Question 6: Which of the following statement is NOT true about find operation :

- It is not a requirement that a find operation returns any specific name, just that finds on two elements return the same answer if and only if they are in the same set.
- One idea might be to use a tree to represent each set, since each element in a tree has the same root, thus the root can be used to name the set. Initially each set contains one element.