Dashboard My courses In21-S2-CS2023 (117329) Week 1 : Introduction to Algorithm & Flowchart

Quiz 1

Started on Thursday, 9 March 2023, 1:22 PM

State Finished

Completed on Thursday, 9 March 2023, 1:34 PM

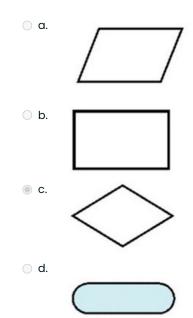
Time taken 12 mins 44 secs

Question 1

Complete

Marked out of 1.00

The flowchart symbol used to denote decision is



Question 2
Complete
Marked out of 1.00

Following pseudocode is used to sort a list using insertion sort. What is the missing code segment (indicated as *missing>*)?

- $\bigcirc \text{ a. } A[i+1] = A[i]$ i = i+1
- \bigcirc C. A[i-1] = A[i]i = i-1
- od. A[i+1] = A[i]i = i-1

Question $\bf 3$

Complete

Marked out of 1.00

What is the smallest value of n such that an algorithm whose running time is 100n^2 runs faster than an algorithm whose running time is 2^n on the same machine?

- a. 5
- ob. 10
- o. 20
- d. 15

Question 4
Complete
Marked out of 1.00

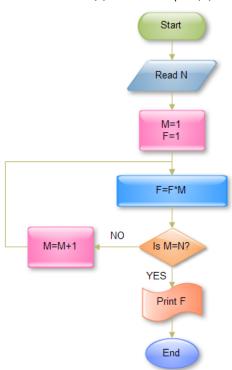
Which of the following is a computational task?

- a. What is 54*566?
- b. Given a whole number A, is A prime?
- \circ c. What is 85 9 + 4?
- od. All of the Above

Question **5**Complete

Marked out of 1.00

What is the result (F) when the input (N) = 5?



- a. 120
- ob. 150
- o. 100
- od. 50

Question 6
Complete
Marked out of 1.00
Which of the following examples represent the worst case input for an insertion sort?
a. array sorted in reverse order
 b. array in sorted order
o. large array
od. normal unsorted array
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