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Class - SYCSE

Roll no. - 7

Batch - S1

Sub. - D.S.

Teacher's Assessment - 1

Q1]

$(A + B + (C * D))$

Solⁿ:

i) Resultant expression after first undo

=> $(A + B + (C * D))$

ii) Resultant expression after 5th undo

=> $(A + B + C$

iii) Sequence of Input

=> ① C ② A ③ + ④ B ⑤ * ⑥ (⑦ (⑧ * ⑨ D ⑩) ⑪)

iv)

=> Yes. As the undo & Redo operations are stack data structure to store Input.

Q2]

Solⁿ:

i)

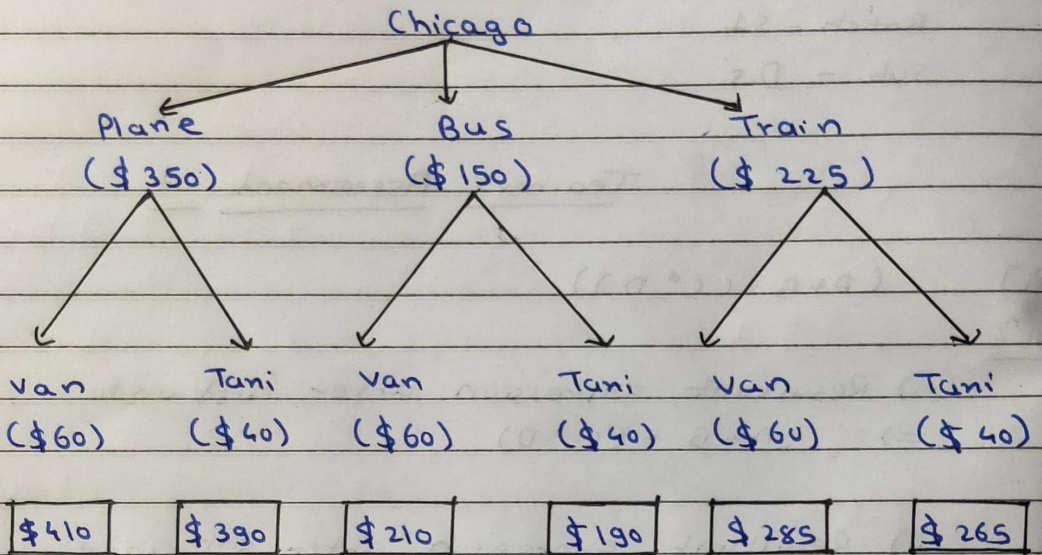
=> Order in which print requests are stored.

① Mathew ② Suzanne ③ John

ii)

=> Mathew document will be first retrieve for printing as printer follows (FIFO) order.

Q3.]

Solⁿ:Tree diagram:-

Miami

Q4.]

Solⁿ:

a) → linked list or Hash Table

b) → Stack or Tree

c) → Linked list or Graph

d) → Stack

e) → Tree

Q5]

Solⁿ:

Use linear search on the sorted list.

Q6]

Solⁿ:

Heap Sort, because it is in place.

Q7]

Solⁿ:

Insertion sort

Q8]

Solⁿ:

Insertion sort