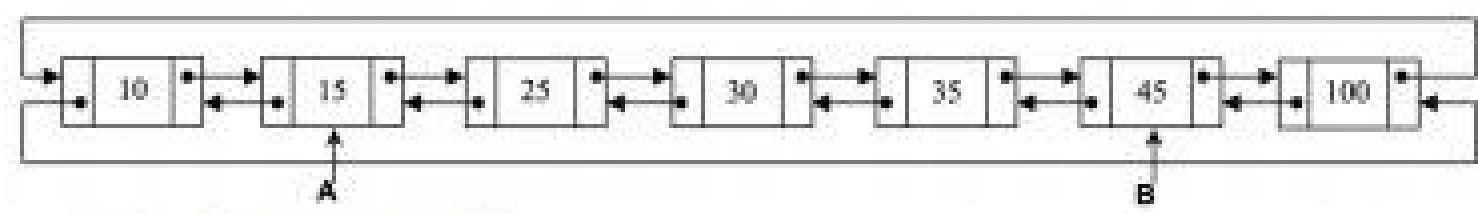


home / study / engineering / computer science / computer science questions and answers / 1. fill in the values indicated by the pointer variable express...

Question: 1. Fill in the values indicated by the pointer variable expressions ...

PLEASE ANSWER

1. Fill in the values indicated by the pointer variable expressions below, based on the following linked list:



a) A->next->next->info _____

b) B->next->info _____

c) B->next->back->back->info _____

d) A->back->next->info _____

36

2. The figure below is a uni-directional list. Manila is the head of the list and the pointer contains addresses of data shown below. Batanes is the tail of the list and the pointer contains 0. Choose one correct way to insert Cebu placed at address 150 between Boracay and Davao.

Pointer for the head	Address	Data	Pointer
10	10	Manila	50
	30	Batanes	0
	50	Vigan	90
	70	Davao	30
	90	Boracay	70
	150	Cebu	

a) The pointer for Cebu to be set to 50 and that for Davao to be set to 150

b) The pointer for Cebu to be set to 70 and that for Boracay to be set to 150

c) The pointer for Cebu to be set to 90 and that for Davao to be set to 150

d) The pointer for Cebu to be set to 150 and that for Boracay to be set to 90

3. Show what is written by the following segments of code:

a)P = (node) malloc(sizeof(NodeEntry));Q = (node) malloc(sizeof(NodeEntry));P->info = 5; Q->info = 6;P = Q;P->info = 1;printf("%d %d", P->info, Q->info);

b)P = (node) malloc(sizeof(NodeEntry));P->info = 3;Q = (node) malloc(sizeof(NodeEntry));Q->info = 2;P = (node) malloc(sizeof(NodeEntry));P->info = Q->info;Q->info = 0;printf("%d %d", P->info, Q->info);

4. Swap two adjacent elements by adjusting only the links (and not the data) using:


a) singly linked lists

b) doubly linked lists

Provide a diagram or steps of your solution.

Show transcribed image text

Expert Answer



MANISH GUPTA answered this
18,064 answers

Was this answer helpful?

👍 0

👎 0

①

$$A \rightarrow next \rightarrow next \rightarrow info = 30$$
$$B \rightarrow next \rightarrow info = 100$$
$$B \rightarrow next \rightarrow back \rightarrow back \rightarrow info = 35$$
$$A \rightarrow back \rightarrow next \rightarrow info = 15$$

②

The pointer for Cebu to be set to 70 and that for Boracay to be set to 150.

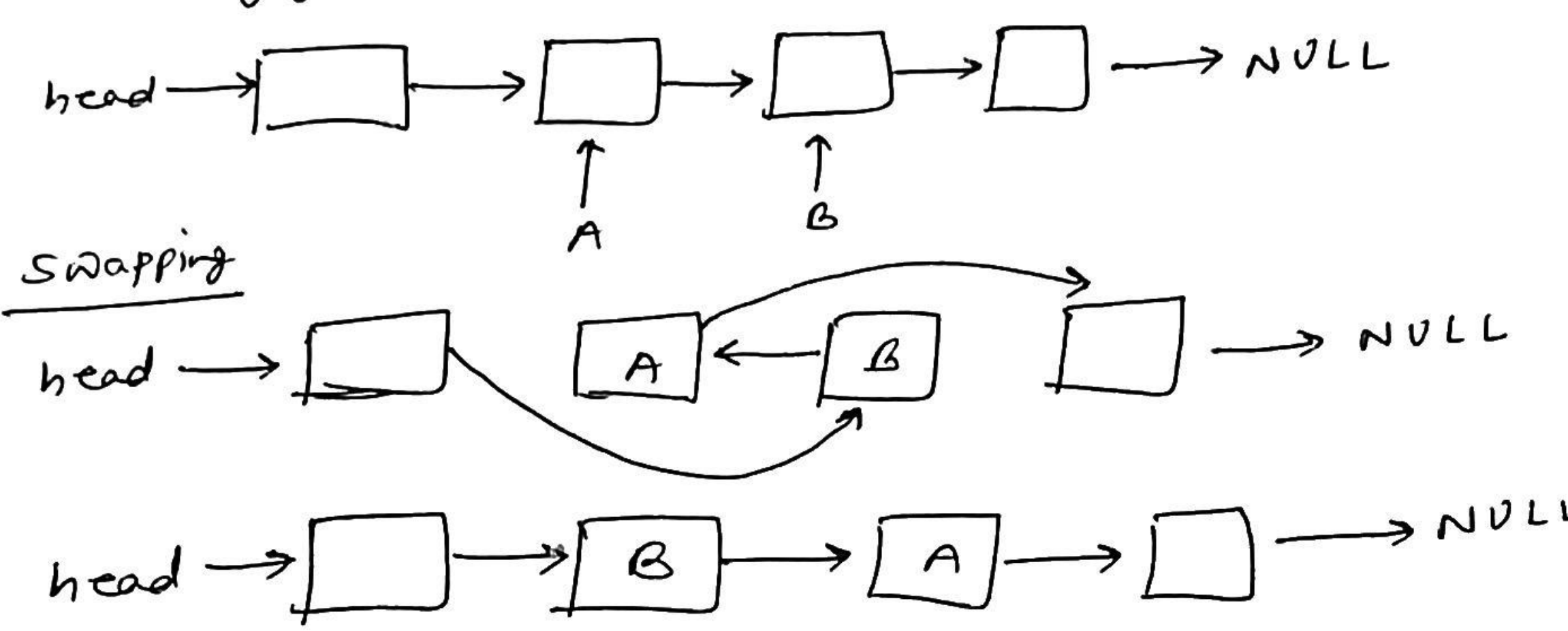
③

Ⓐ output = 1 1

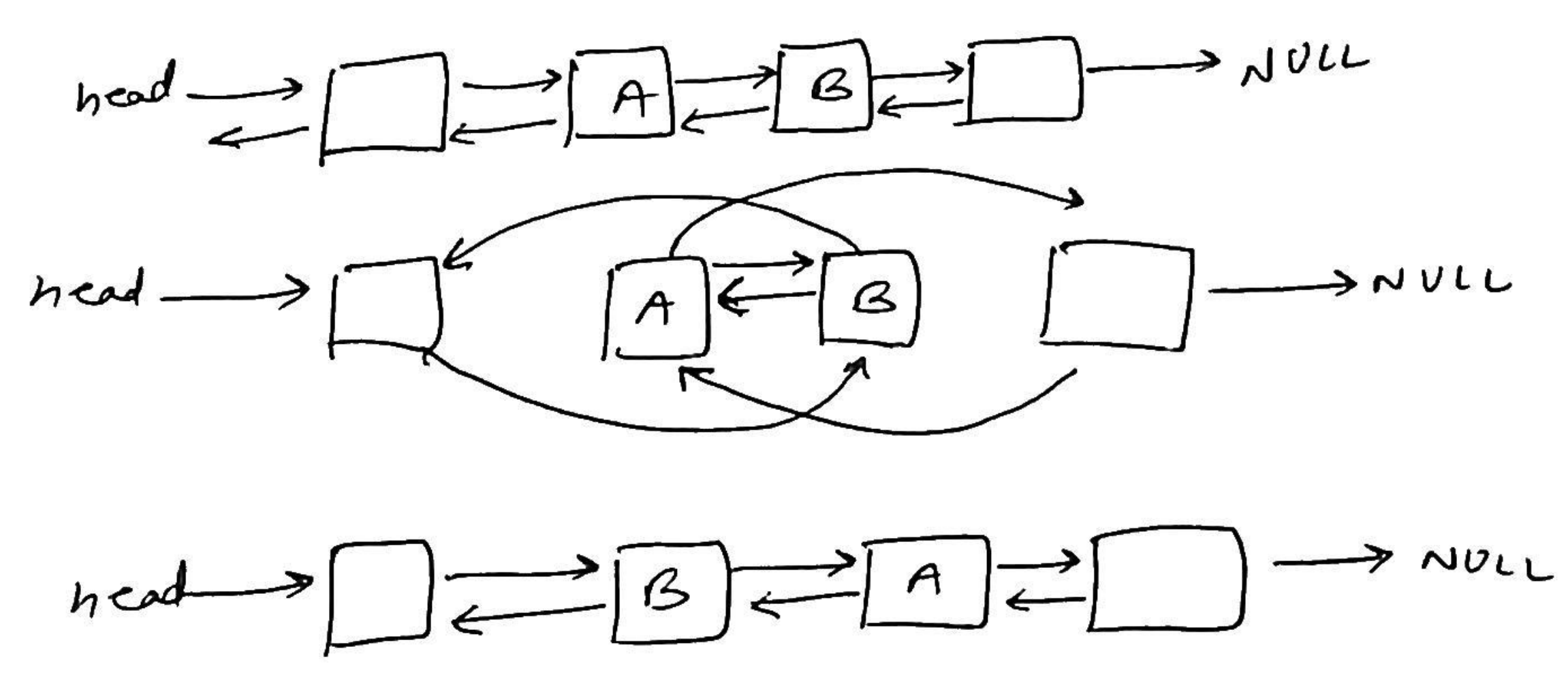
Ⓑ output = 2 0

④

Singly linked list



Doubly linked list



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Questions viewed by other students

Q: PS: PLEASE CONVERT IT INTO C PROGRAM #include "stdafx.h" #include #include using namespace std; int main() { //Initialise the start time. clock_t startTime = clock(); //Initialise the variables. int n, sum = 0, ch, i, j, k; //Prompt the user to take the values of n. cout << "Enter the value of n"; cin >> n; //Prompt the user to enter the choice. cout << "Enter the...

A: See answer

Q: PLEASE Answer this in C PROGRAM!!!

A: See answer

👍 100%

(1 rating)

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