**Question:**

You are working on a project where you need to manage a list of clients. Each client is represented as a node in a dummy headed doubly linked list. Each client node contains information about the client's ID .

Now, your task is to perform a specific operation to maintain a list of clients. You need to implement a function called **Removes\_client(head).** This function will remove the client if the client id is divisible by the length of the linked list

* No need to write the Node class. Just assume Node class is there with three instance variables; ***client\_id, prev*** and ***next***.
* You may want to **write a length(head)** method/function to use it in this task.

| **Sample Input** | **Sample Output** |
| --- | --- |
| **DH ⇄ 17 ⇄ 15 ⇄ 12 ⇄ 41 ⇄ 66 ⇄ 67 ⇄ None**  **Removes\_client(head).** | **DH ⇄ 17 ⇄ 15 ⇄ 41 ⇄ 67 ⇄ None**  Explanation:  Length of the linked list is 6.  Client id is 17; 17 % 6 = 5 so you won't remove the client.  Client id is 15; 15 % 6 = 3 so you won't remove the client.  Client id is 12; 12 % 6 =0 so you will remove the client.  Client id is 41; 41 % 6 = 5 so you won't remove the client.  Client id is 66; 66 % 6 = 0 so you will remove the client.  Client id is 67; 67 % 6 = 1 so you won't remove the client |

**Question:**

You are working on a project where you need to manage a list of clients. Each client is represented as a node in a dummy headed doubly linked list. Each client node contains information about the client's ID .

Now, your task is to perform a specific operation to maintain a list of clients. You need to implement a function called **Removes\_client(head).** This function will remove the client if the client id is not divisible by the length of the linked list

* No need to write the Node class. Just assume Node class is there with three instance variables; ***client\_id, prev*** and ***next***.
* You may want to **write a length(head)** method/function to use it in this task.

| **Sample Input** | **Sample Output** |
| --- | --- |
| **DH ⇄ 18 ⇄ 15 ⇄ 12 ⇄ 41 ⇄ 66 ⇄ 67 ⇄ None**  **Removes\_client(head).** | **DH ⇄ 18 ⇄ 12 ⇄ 66 ⇄ None**  Explanation:  Length of the linked list is 6.  Client id is 18; 18 % 6 = 0 so you won't remove the client.  Client id is 15; 15 % 6 = 3 so you will remove the client.  Client id is 12; 12 % 6 =0 so you won't remove the client.  Client id is 41; 41 % 6 = 5 so you will remove the client.  Client id is 66; 66 % 6 = 0 so you won’t remove the client.  Client id is 67; 67 % 6 = 1 so you will remove the client. |