

UAS

📄 Subject	Data Structure and Algorithm
📄 Lecturer	Imam Fahrur Rozi ST. MT.
📄 Type	Assignment
📄 Semester	Semester 2
📅 Time	@June 23, 2023
📎 Files & Media	

Code

```
//soal 1
int[] toArray()
{
    //make an array from the existing objects
    int[] arr = new int[size()];
    Node2P tmp = head;
    for(int i = 0; i < size(); i++)
    {
        arr[i] = tmp.data;
        tmp = tmp.next;
    }
    return arr;
}

//soal 2
DLL sublist(int start, int end)
{
    //make new list that taken from the existing list, but only take some list
    DLL list = new DLL();
    Node2P tmp = head;
    for(int i = 0; i < end; i++)
    {
        if (i < start) tmp = tmp.next;
        list.addLast(tmp.data);
        tmp = tmp.next;
    }
    return list;
}
```

```

//soal 3
void addAll(DLL list)
{
    //to add all new list into the existing list
    Node2P tmp = list.head;
    for (int i = 0; i < size(); i++)
    {
        if (tmp == null) continue;
        else
        {
            addLast(tmp.data);
            tmp = tmp.next;
        }
    }
}

//soal 4
boolean containsAll(DLL list)
{
    //check whether all the data is already added in the list or not
    Node2P tmp = head;
    for (int i = 0; i < size(); i++)
    {
        if (tmp == null) return false;
        else tmp = tmp.next;
    }
    return true;
}

//soal 5
void removeAll(DLL list)
{
    //to remove all the selected list from the existing list
    Node2P tmp = list.head;
    for (int i = 0; i < size(); i++)
    {
        if (tmp == null) continue;
        else
        {
            deleteByData(tmp.data);
            tmp = tmp.next;
        }
    }
}

```

```
10-100-34-20-200-75
Display of array with toArray() function
10, 100, 34, 20, 200, 75,
Display of array with sublist(1, 3) function
100-34-20
Display of array with addAll() function
10-100-34-20-200-75-212-212-212
Display of array with containAll() function
true
Display all data with removeAll() function
10-20-200-75

Process finished with exit code 0
```