

# Kingsley Samuel Practice Problem 3 Linked List

1. A simple linked list does not support direct access

a) Indexed

- A simple linked list doesn't allow <sup>direct</sup> access to individual elements. It must start from the head and move reference to reference

7. Describe the steps to print out elements in a simple linked list.

• create the linkedlist <sup>test</sup>

```
// LinkedList list = new LinkedList();
```

• create the node

```
// list.head = new Node();
```

```
Node second = new Node();
```

```
Node third = new Node();
```

```
Node four = new Node();
```

• Traverse

```
// list.head.next = second;
```

• Create a print method

```
// public void printList() {
```

```
Node p = head;
```

```
While (p != null) {
```

```
System.out.println(n.data)
```

```
n = n.next;
```

← from constructor

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- ① create a Node
  - ② Create Constructor
  - ③ Create LinkedList
  - ④ within traverse in the while loop create a counter such as "size"
  - ⑤ out print size