

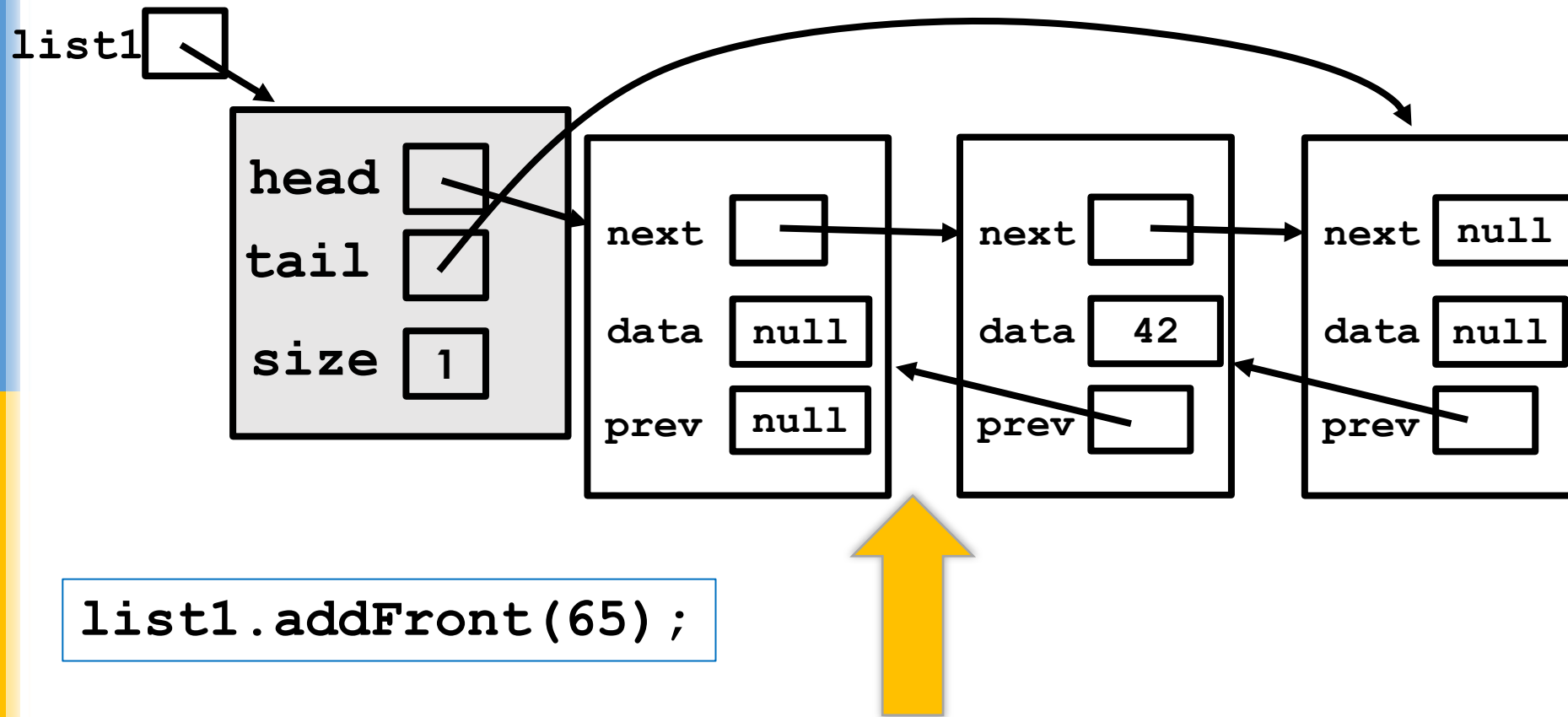
Support: Adding to a Linked List

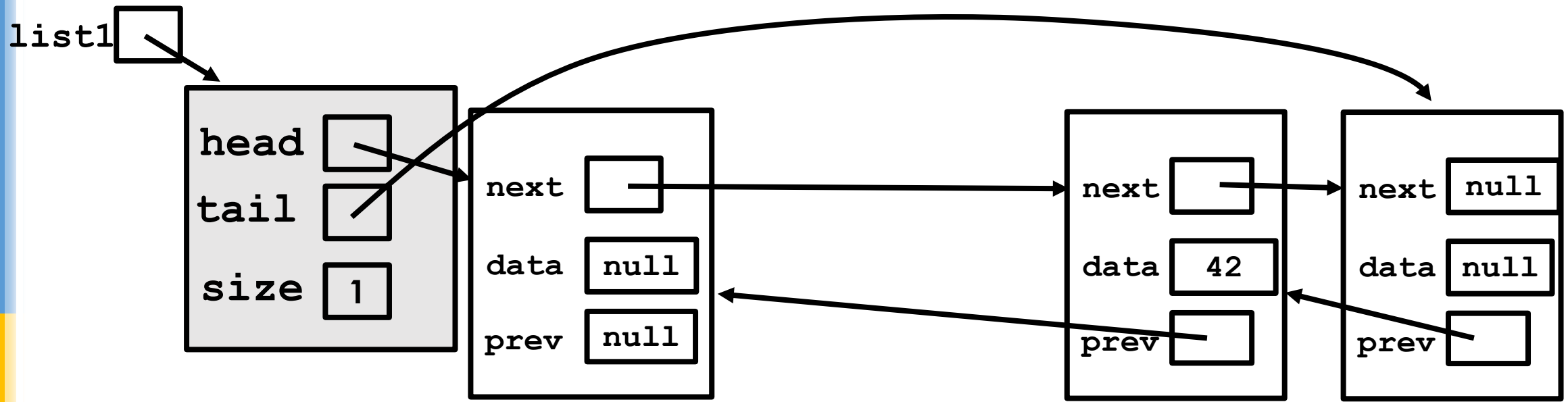


Adding a node

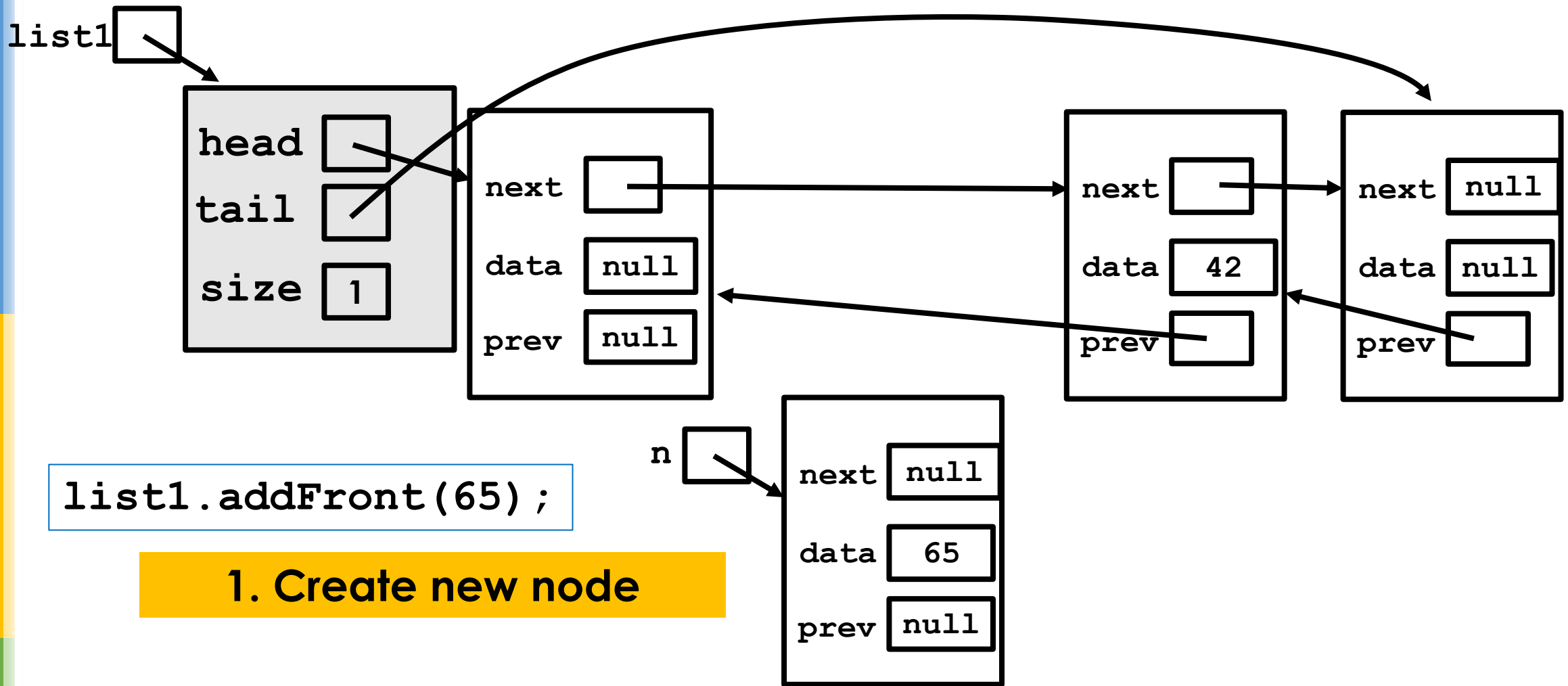


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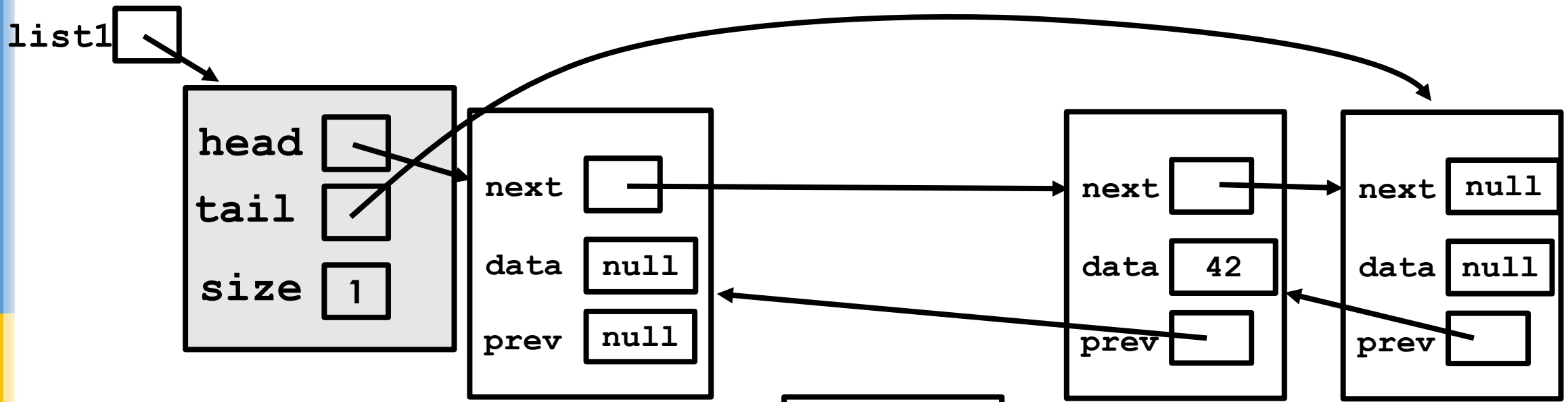


```
list1.addFront(65);
```



```
list1.addFront(65);
```

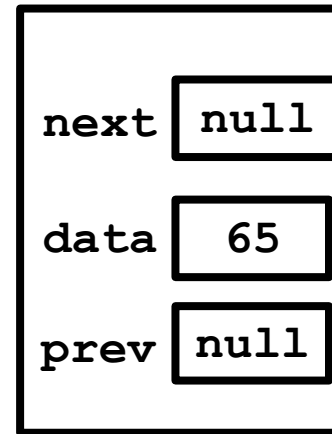
1. Create new node

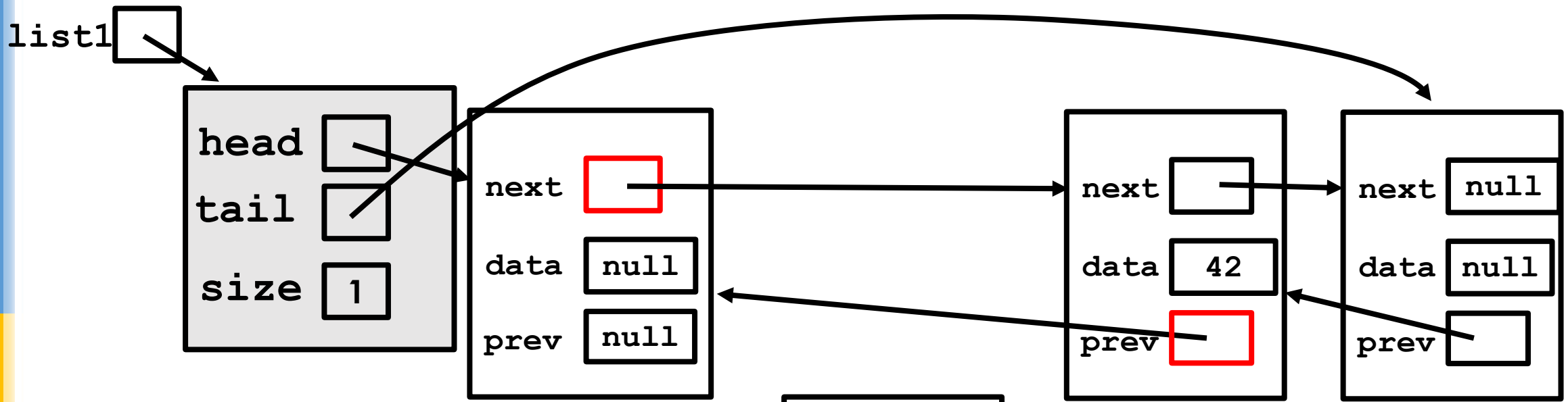


```
list1.addFront(65);
```

1. Create new node

2. Link new node in

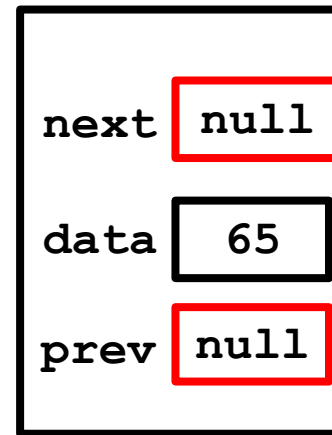


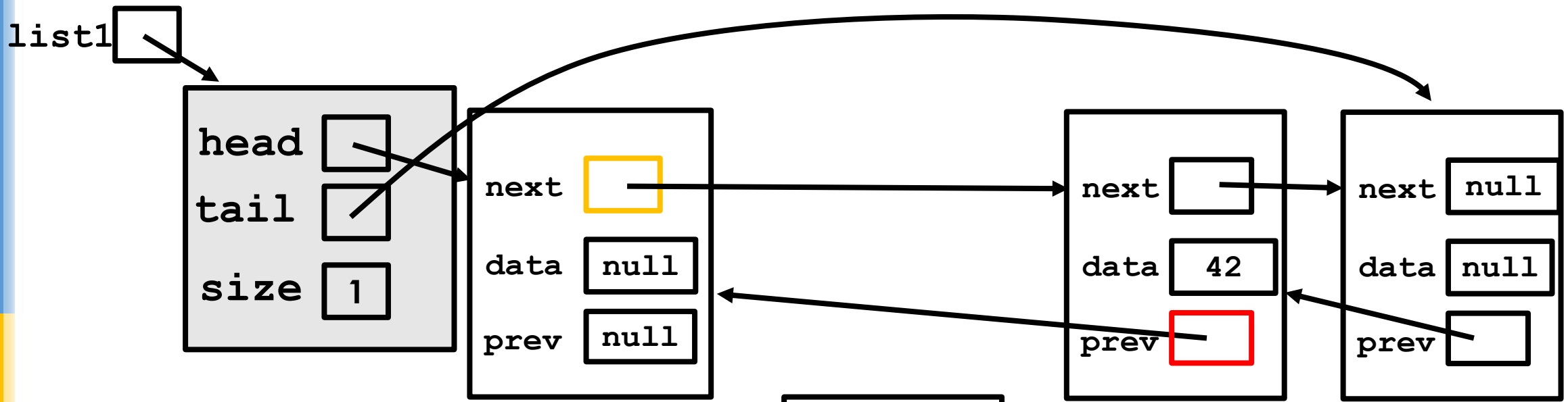


```
list1.addFront(65);
```

1. Create new node

2. Link new node in



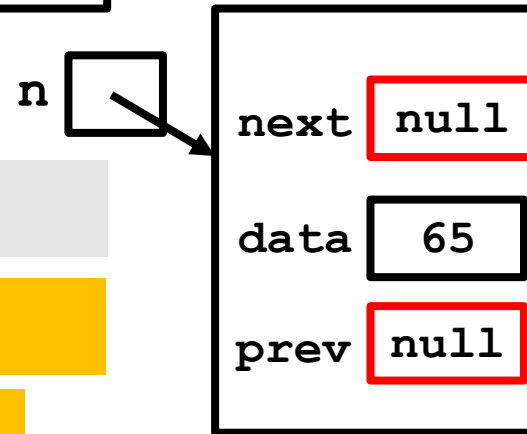


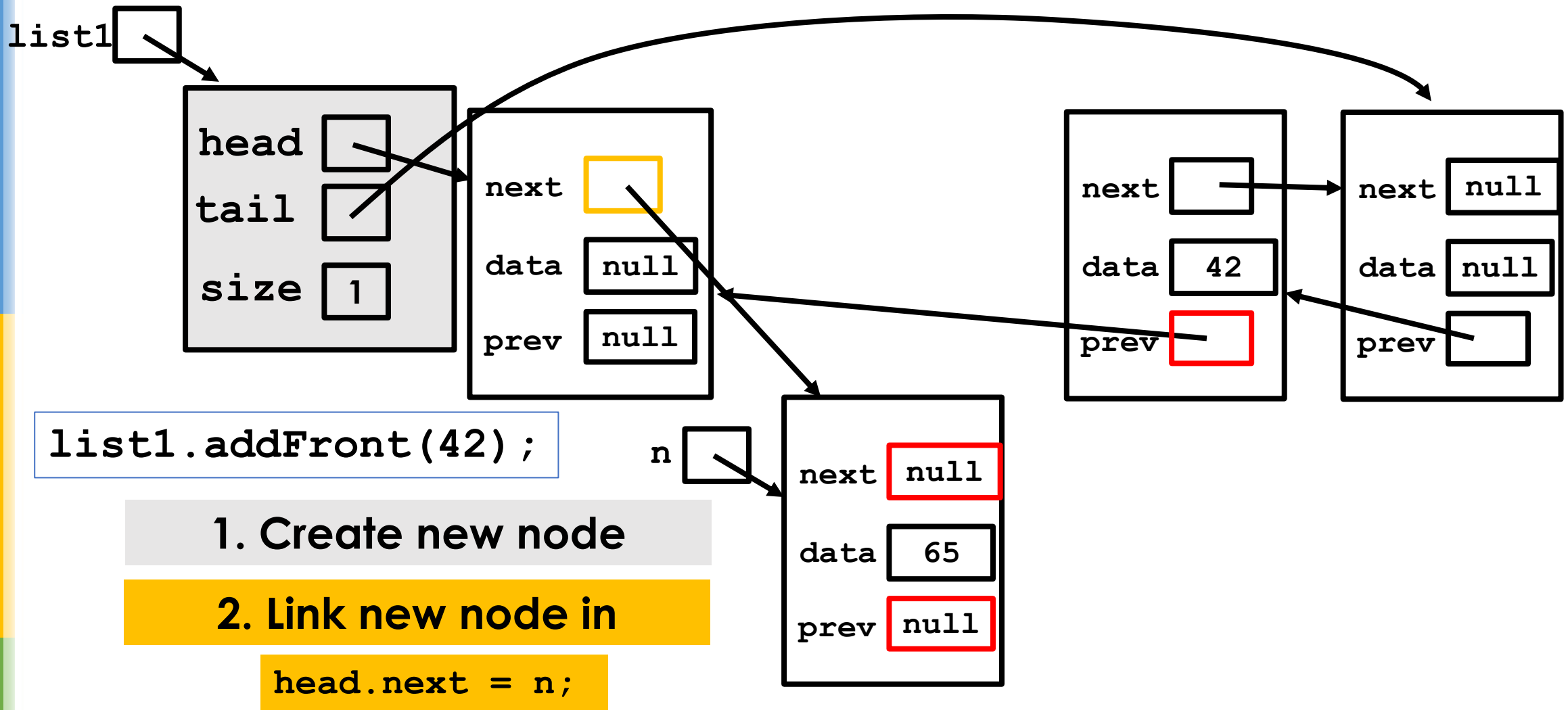
```
list1.addFront(42);
```

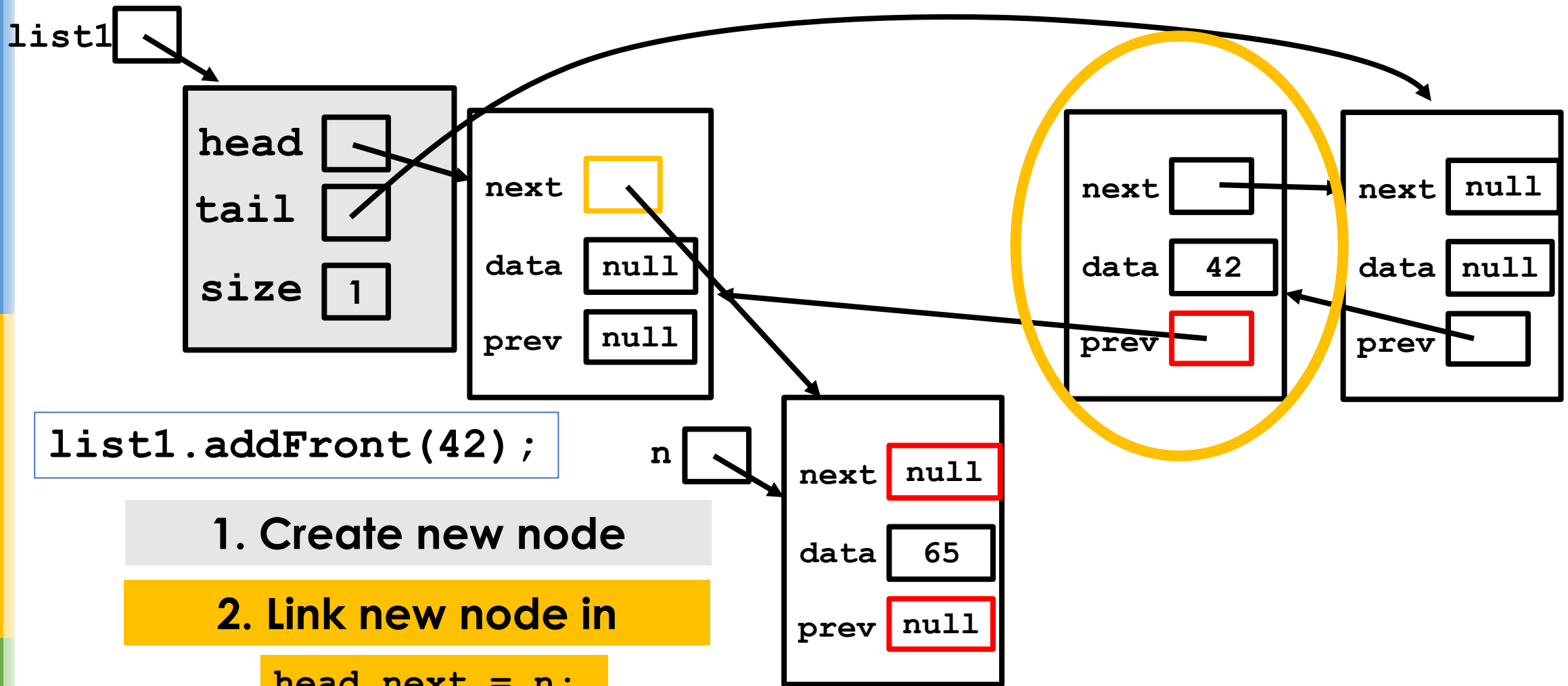
1. Create new node

2. Link new node in

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







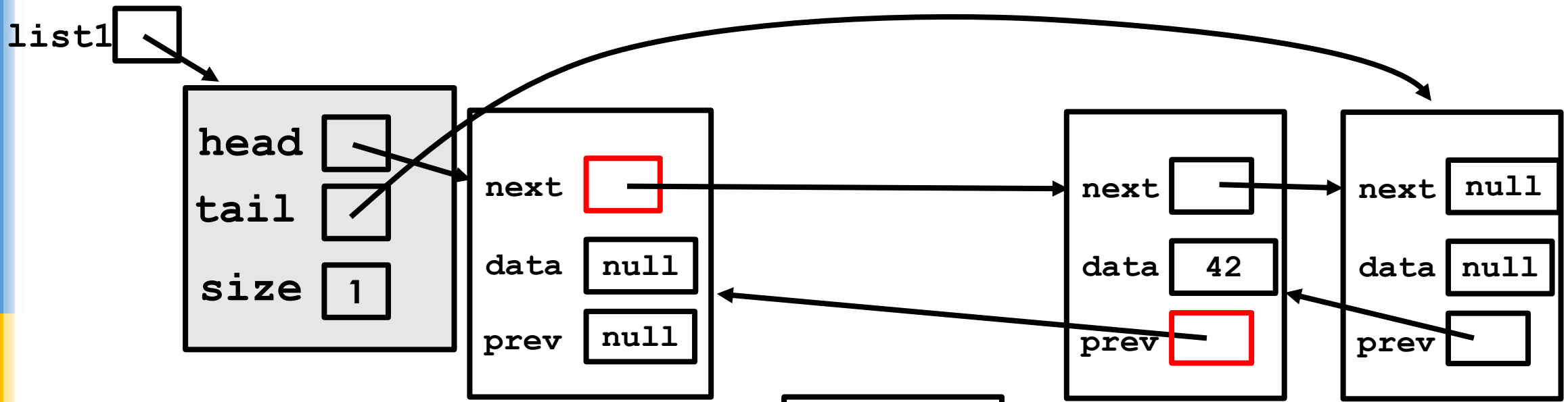
```
list1.addFront(42);
```

1. Create new node

2. Link new node in

```
head.next = n;  
n.next = ???
```

Order matters!!

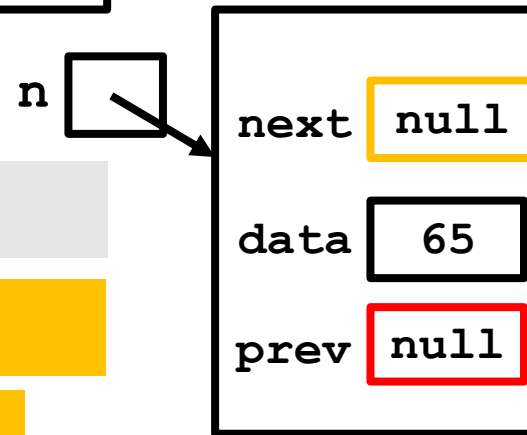


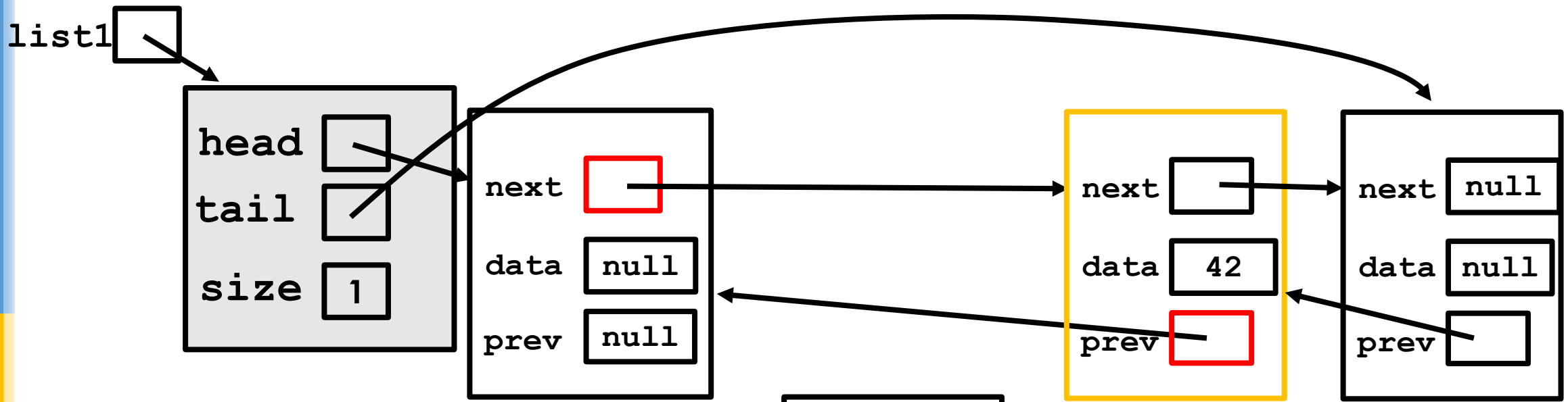
```
list1.addFront(42);
```

1. Create new node

2. Link new node in

`n.next =`



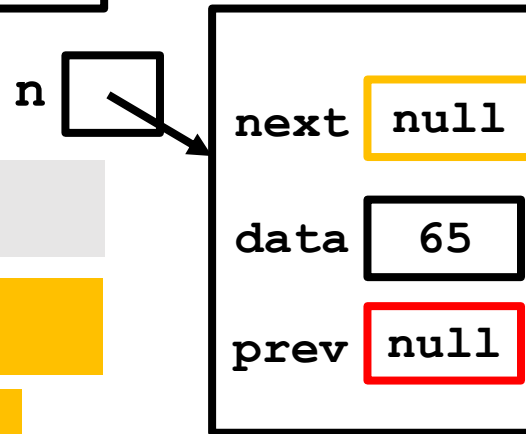


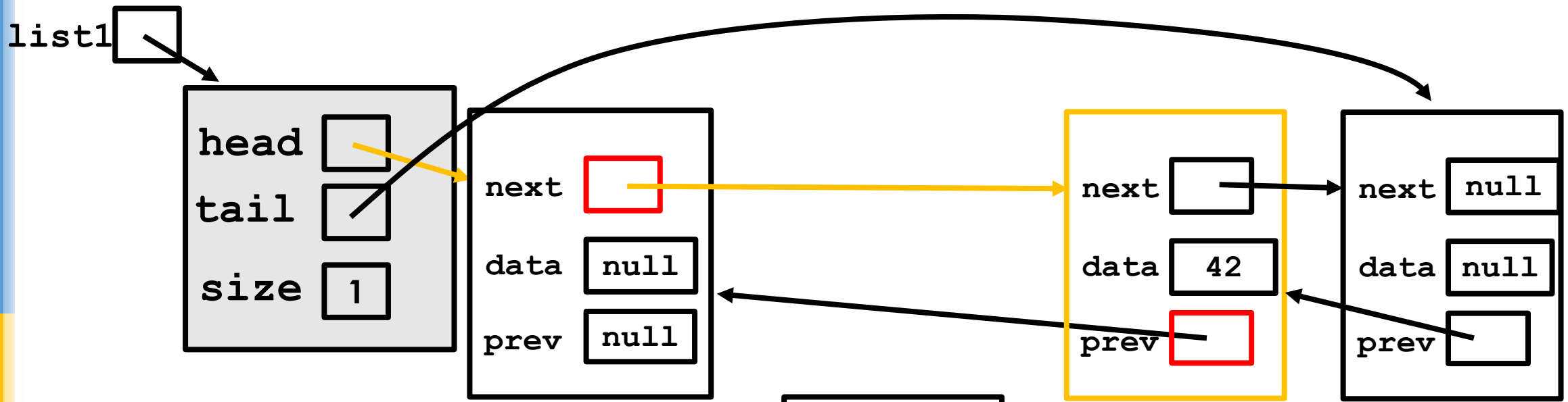
```
list1.addFront(42);
```

1. Create new node

2. Link new node in

```
n.next =
```



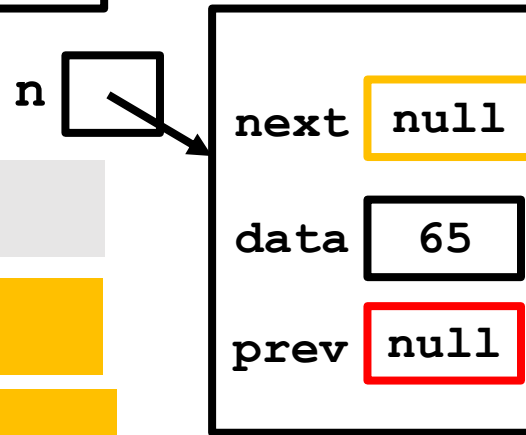


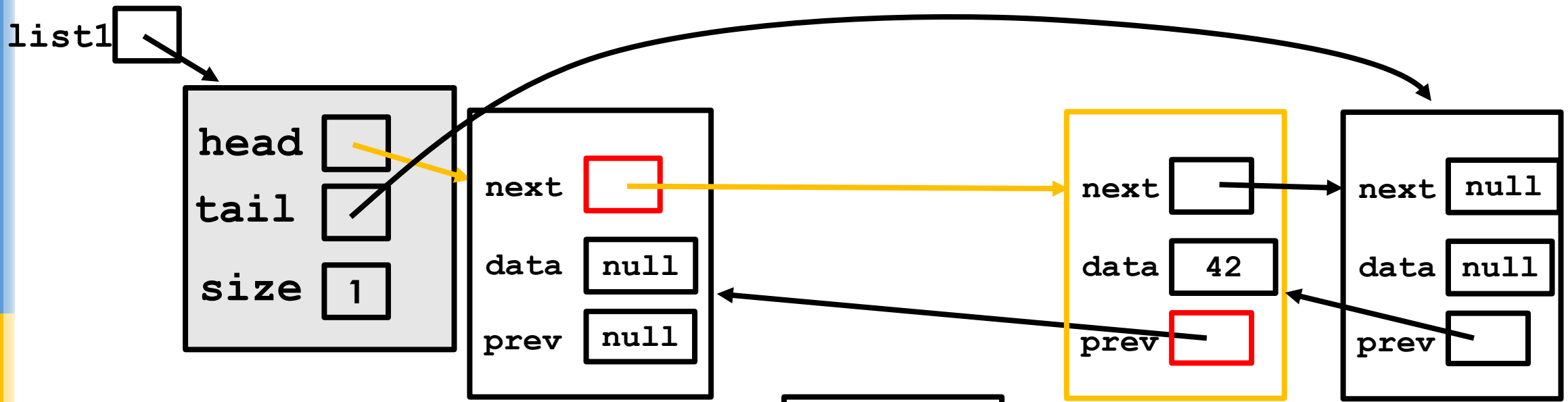
```
list1.addFront(42);
```

1. Create new node

2. Link new node in

`n.next =`



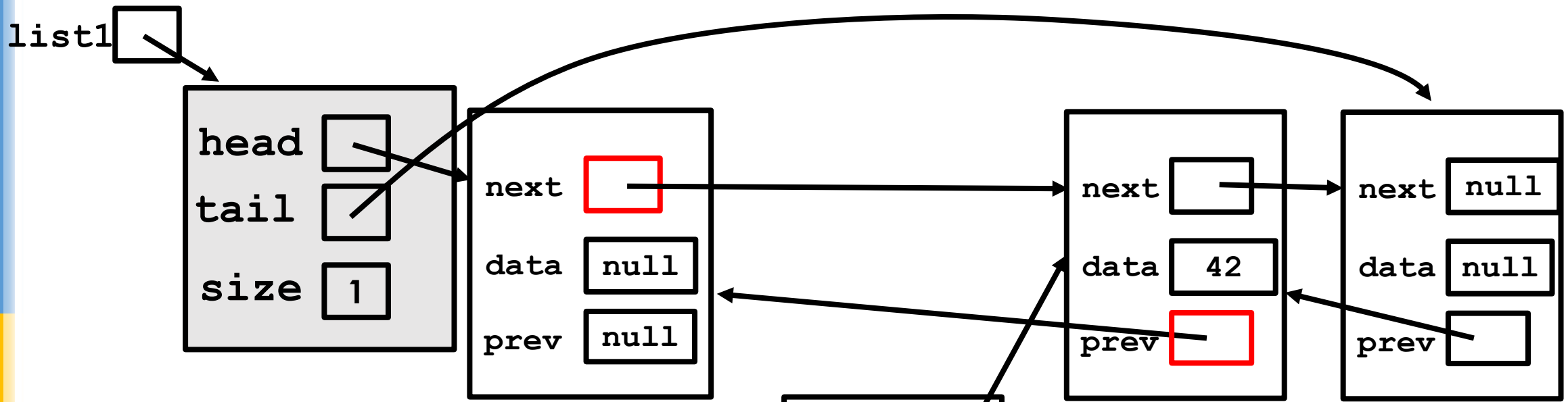


```
list1.addFront(42);
```

1. Create new node

2. Link new node in

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

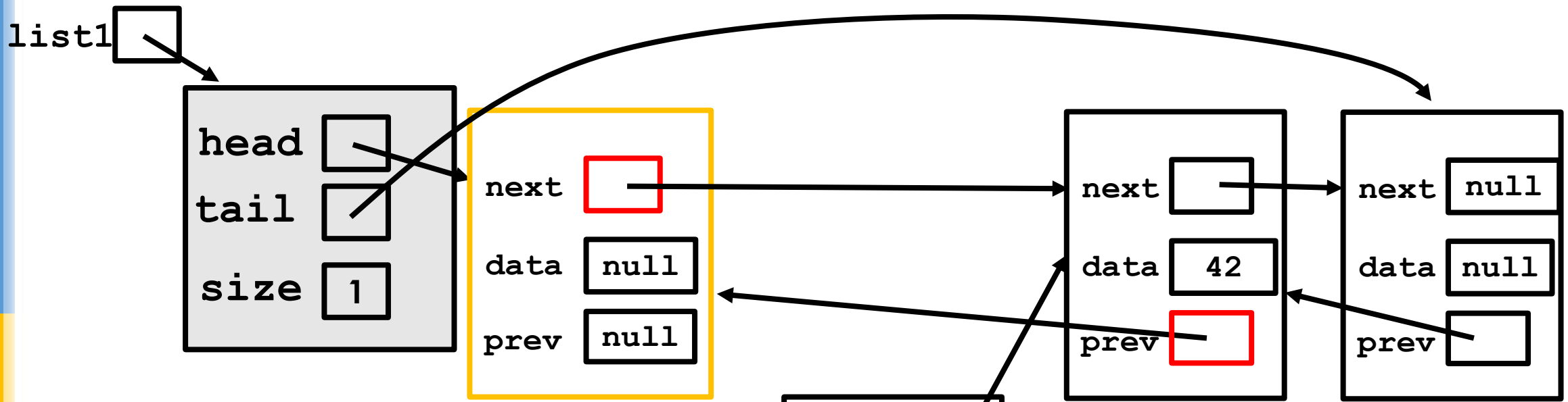



```
list1.addFront(42);
```

1. Create new node

2. Link new node in

```
n.next = head.next;  
n.prev =
```

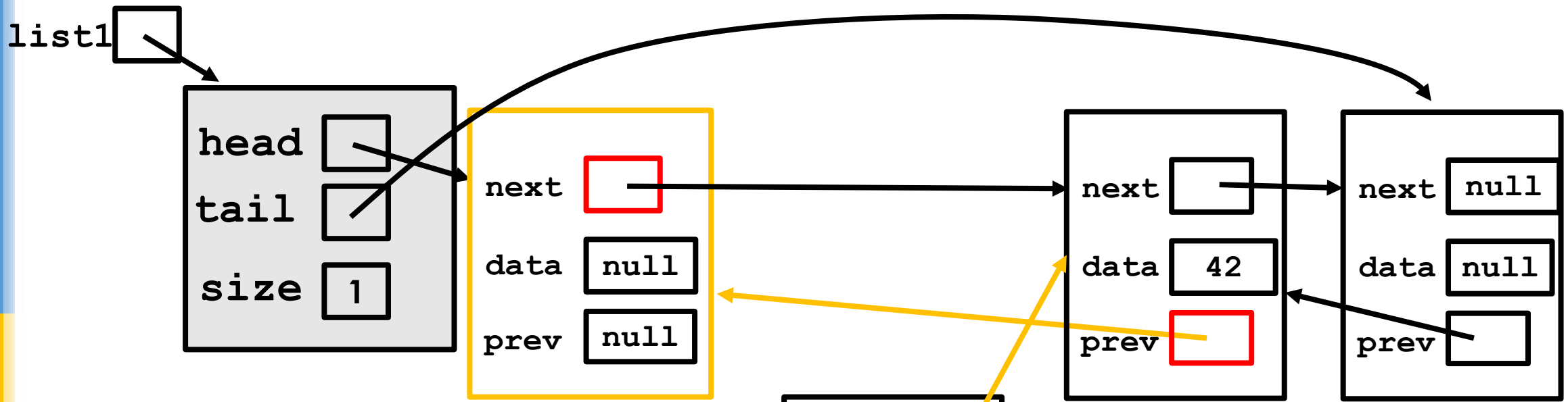


```
list1.addFront(42);
```

1. Create new node

2. Link new node in

```
n.next = head.next;  
n.prev =
```

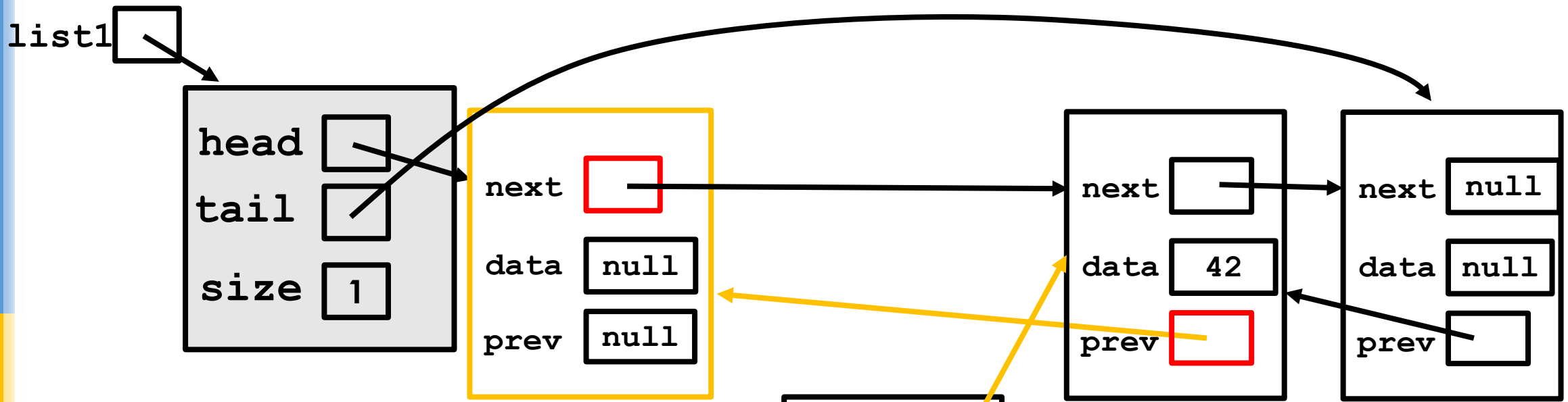



```
list1.addFront(42);
```

1. Create new node

2. Link new node in

```
n.next = head.next;  
n.prev =
```

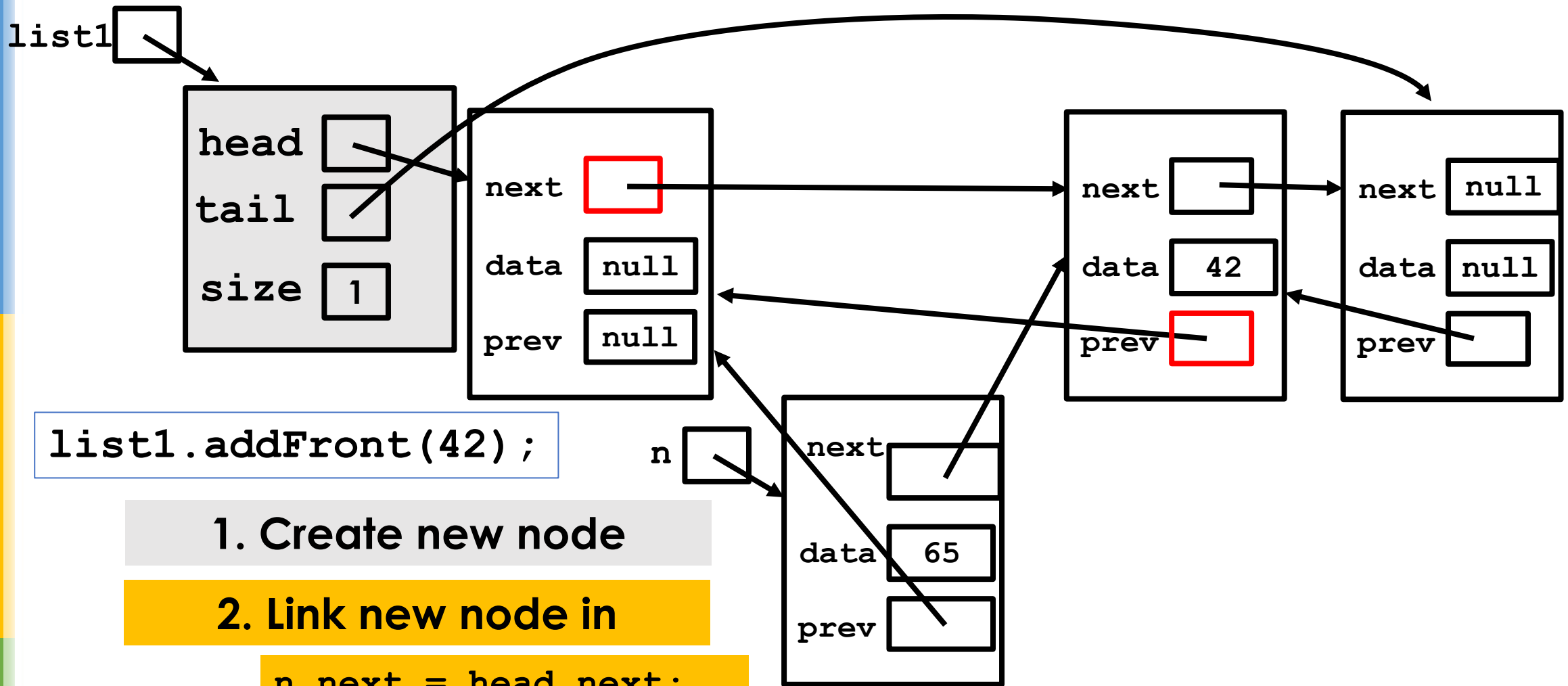


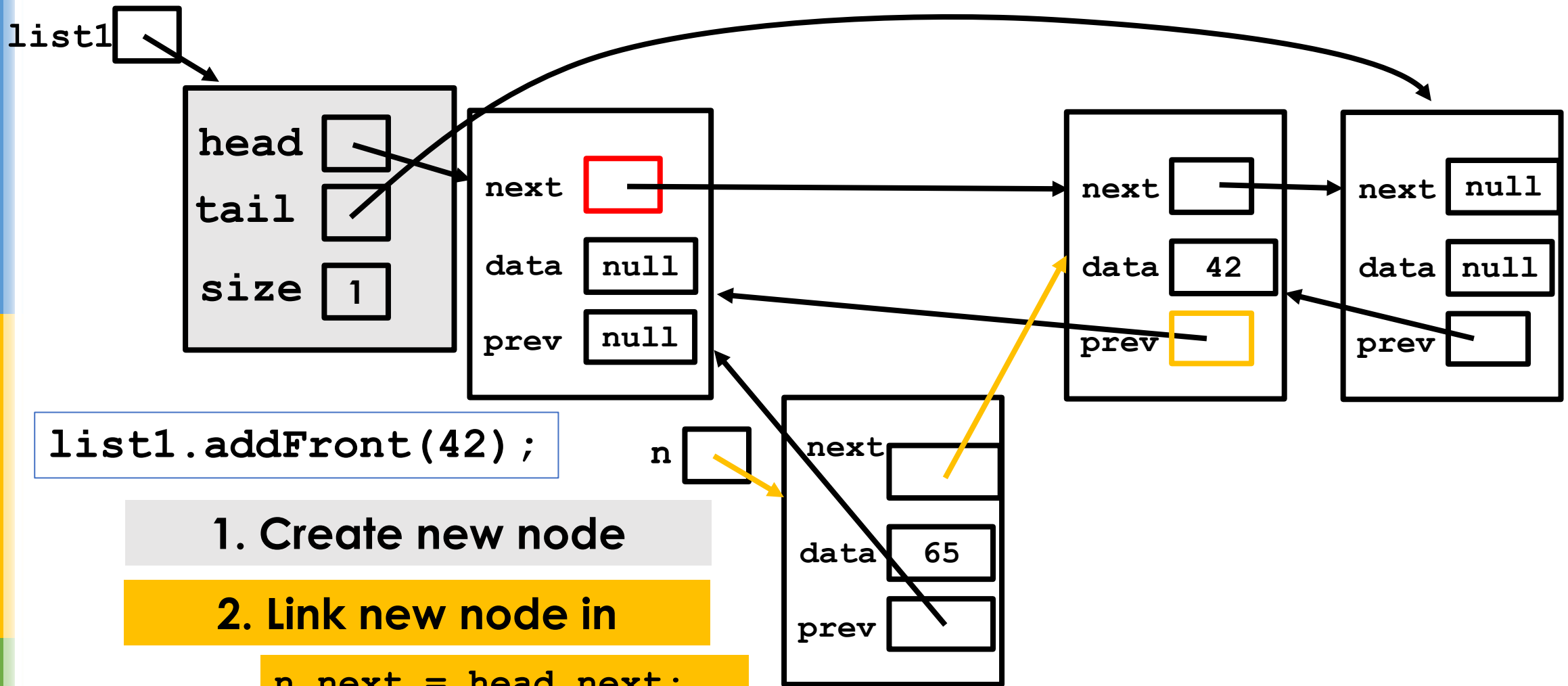
```
list1.addFront(42);
```

1. Create new node

2. Link new node in

```
n.next = head.next;  
n.prev = n.next.prev;
```



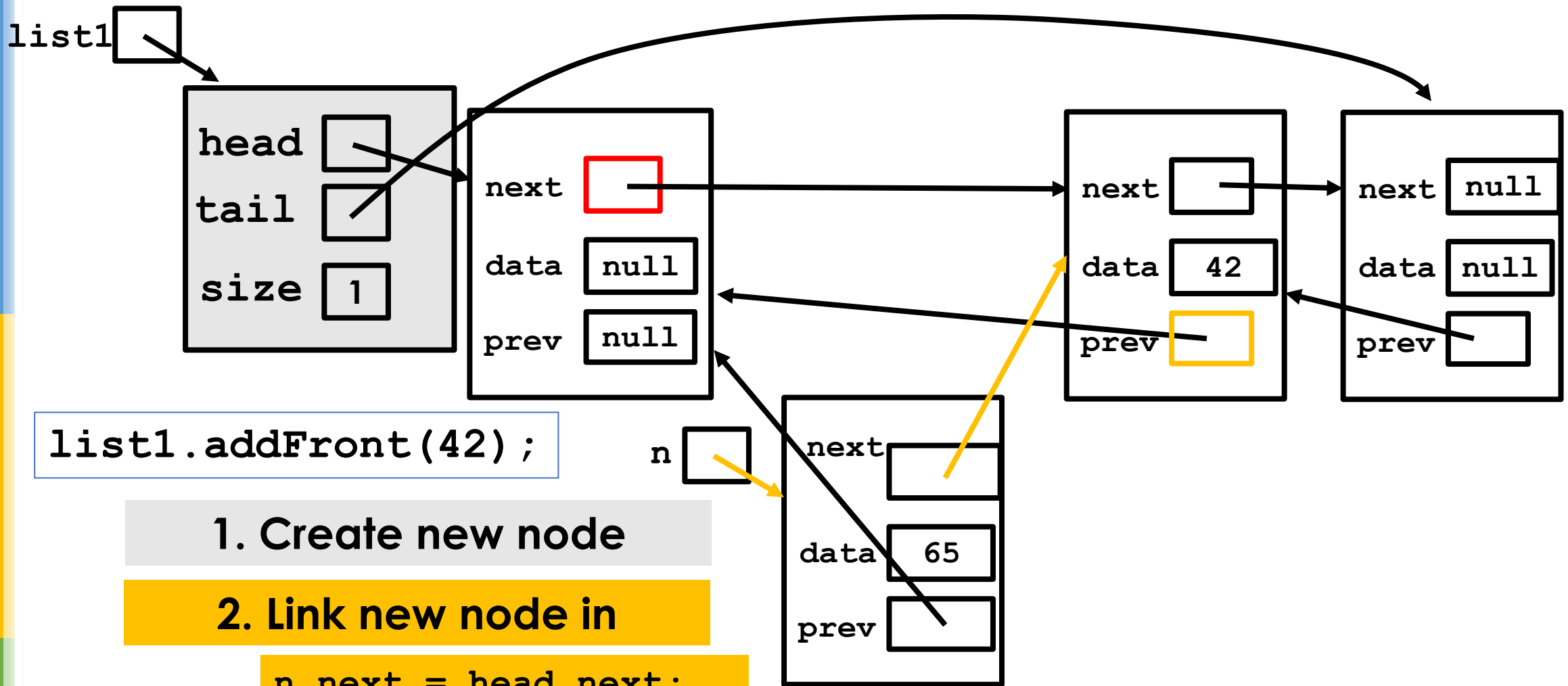


```
list1.addFront(42);
```

1. Create new node

2. Link new node in

```
n.next = head.next;  
n.prev = n.next.prev;
```

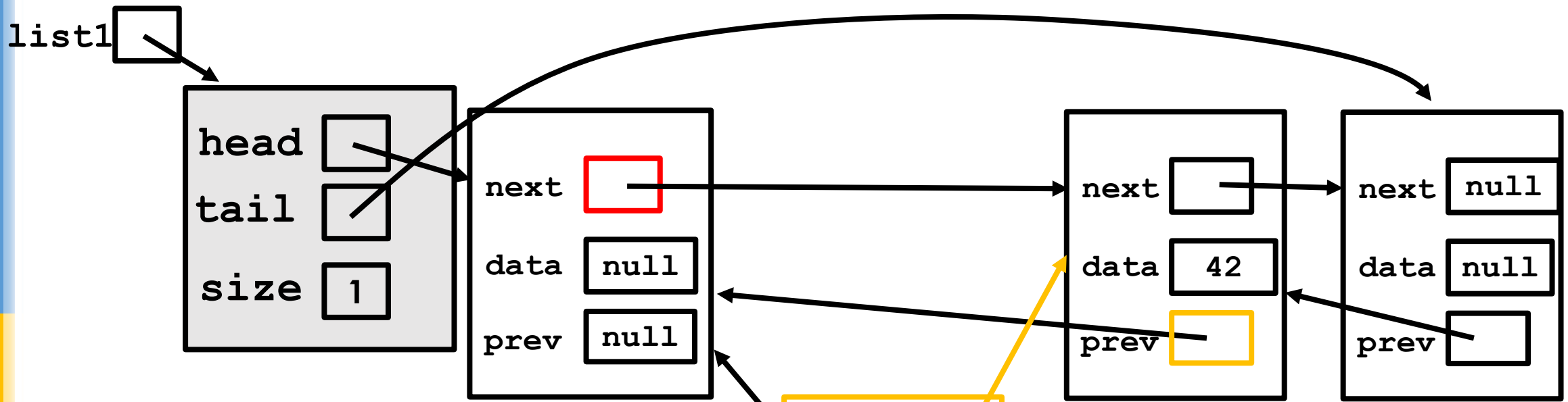


```
list1.addFront(42);
```

1. Create new node

2. Link new node in

```
n.next = head.next;  
n.prev = n.next.prev;  
n.next.prev =
```

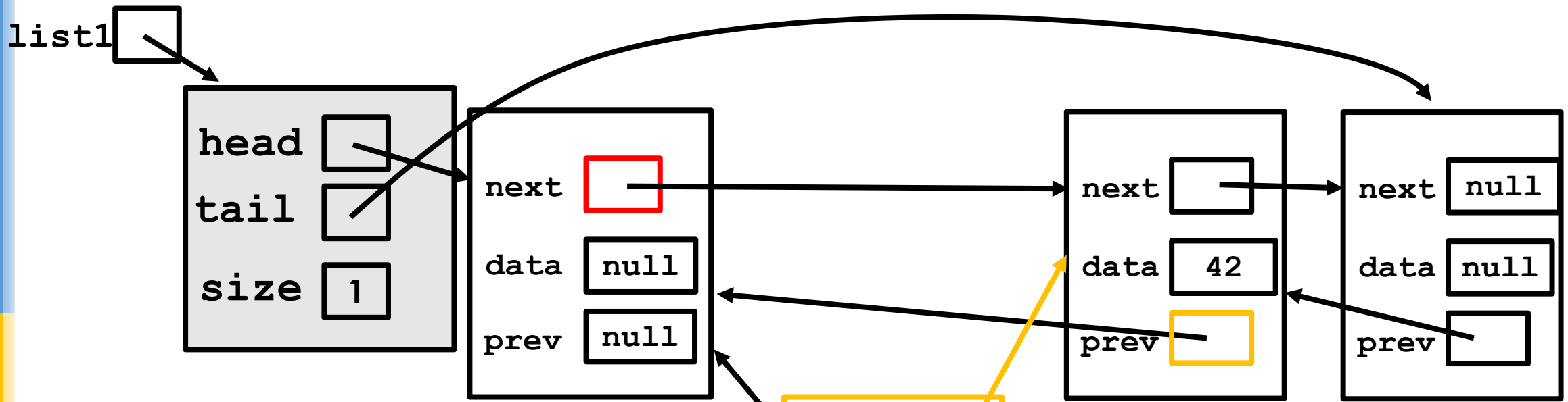


```
list1.addFront(42);
```

1. Create new node

2. Link new node in

```
n.next = head.next;  
n.prev = n.next.prev;  
n.next.prev =
```

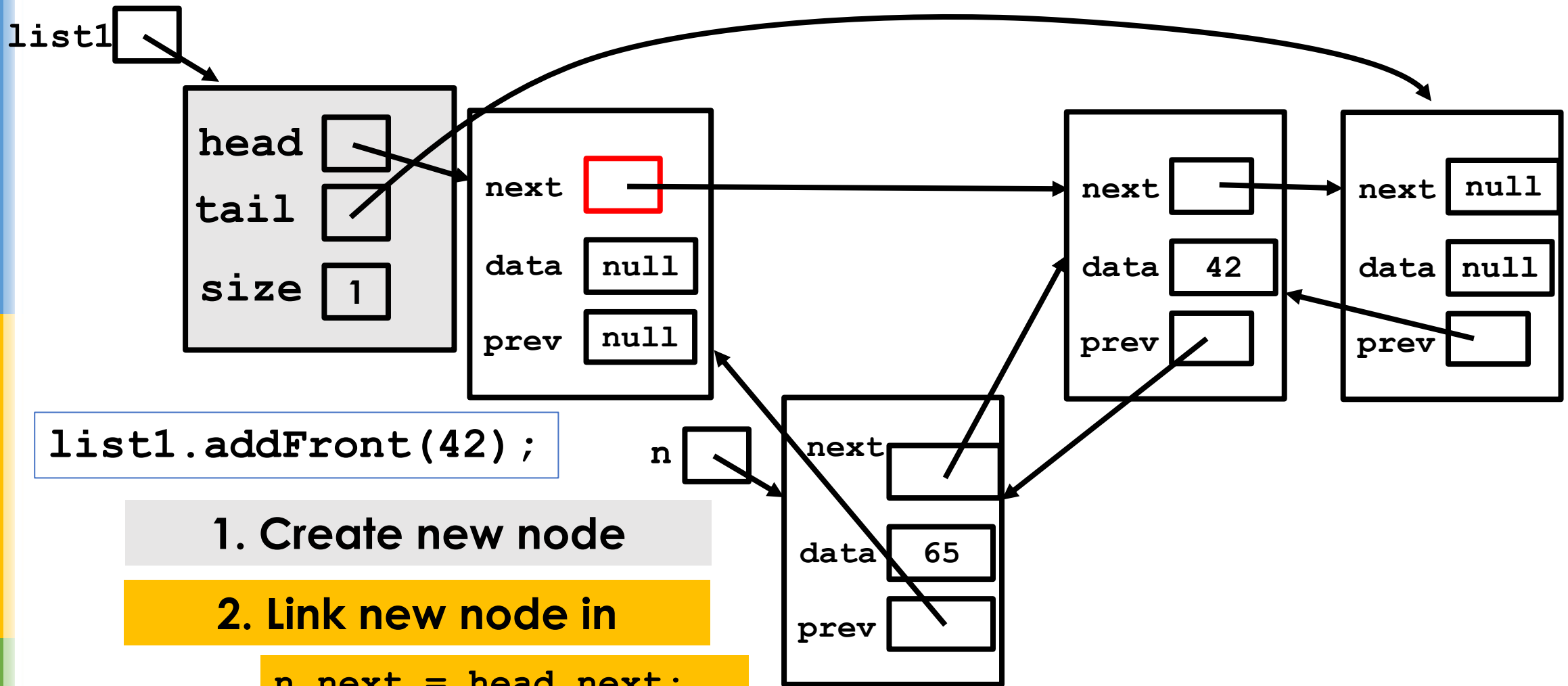


```
list1.addFront(42);
```

1. Create new node

2. Link new node in

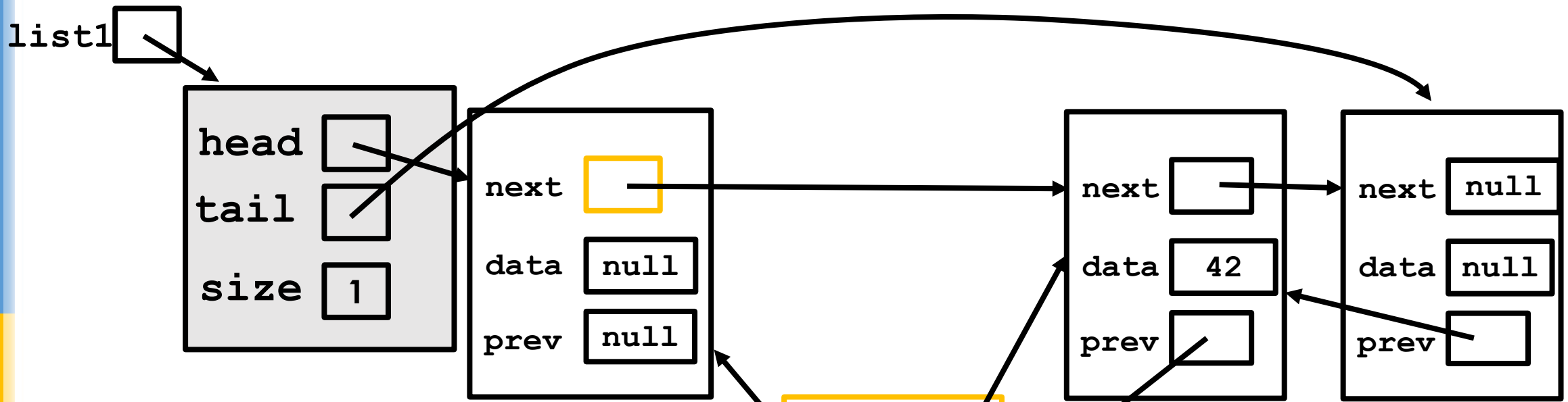
```
n.next = head.next;  
n.prev = n.next.prev;  
n.next.prev = n;
```



1. Create new node

2. Link new node in

```
n.next = head.next;  
n.prev = n.next.prev;  
n.next.prev = n;
```

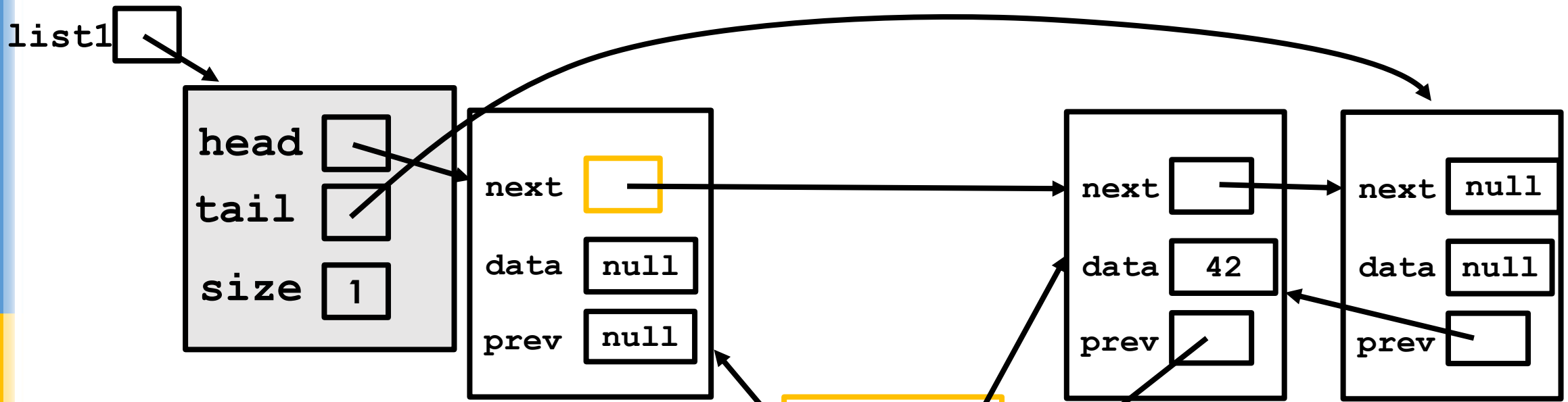



```
list1.addFront(42);
```

1. Create new node

2. Link new node in

```
n.next = head.next;  
n.prev = n.next.prev;  
n.next.prev = n;  
head.next =
```

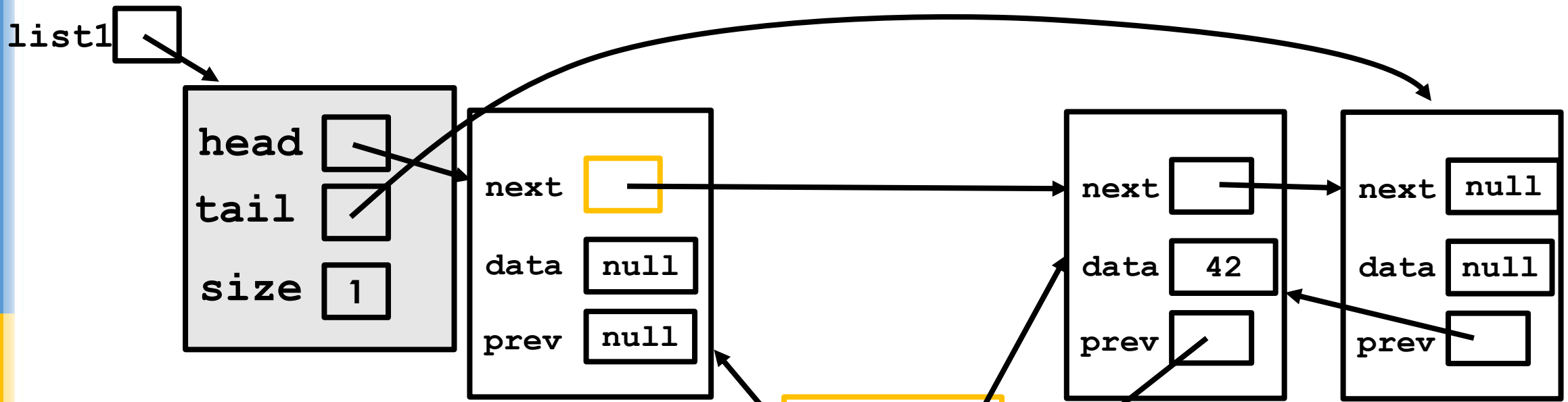


```
list1.addFront(42);
```

1. Create new node

2. Link new node in

```
n.next = head.next;  
n.prev = n.next.prev;  
n.next.prev = n;  
head.next = n;
```



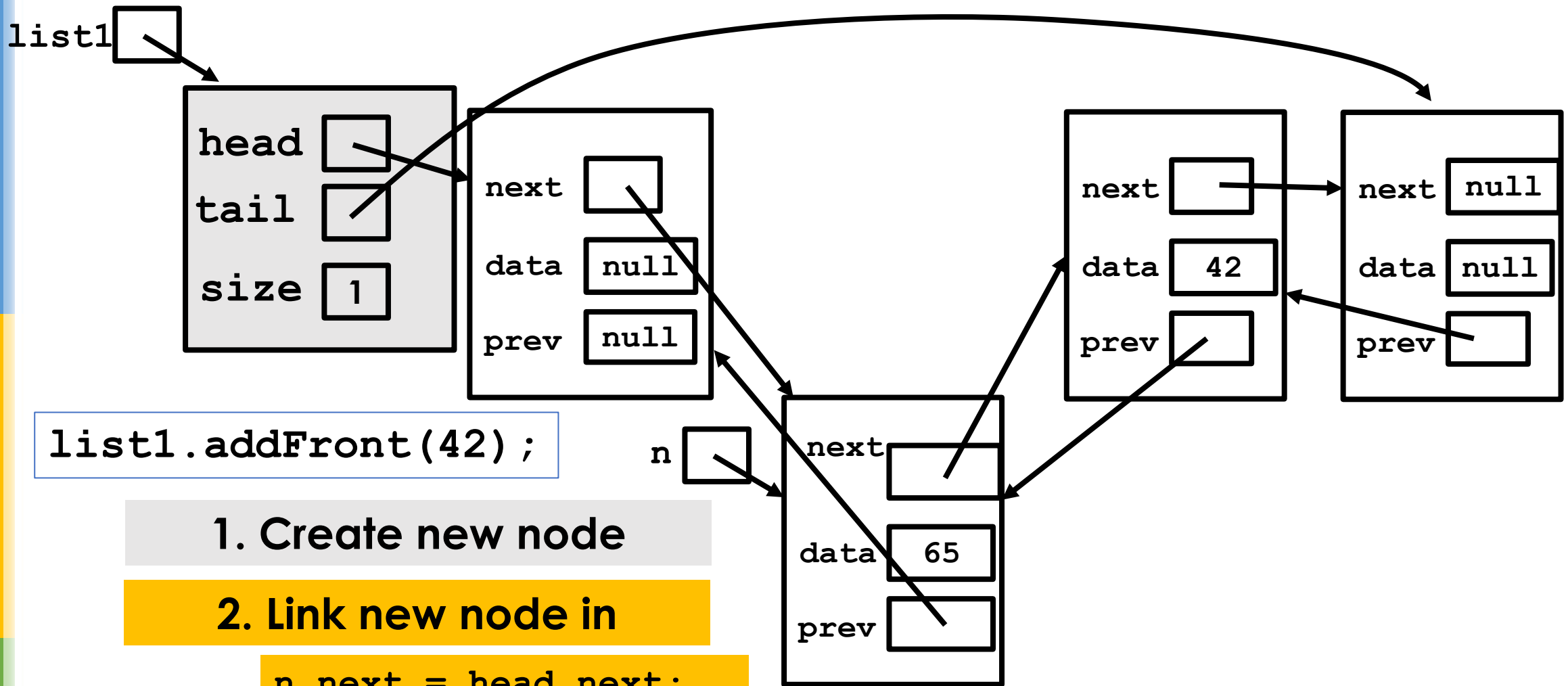
```
list1.addFront(42);
```

1. Create new node

2. Link new node in

```
n.next = head.next;  
n.prev = n.next.prev;  
n.next.prev = n;  
head.next = n;
```

More generally:
`n.prev.next`

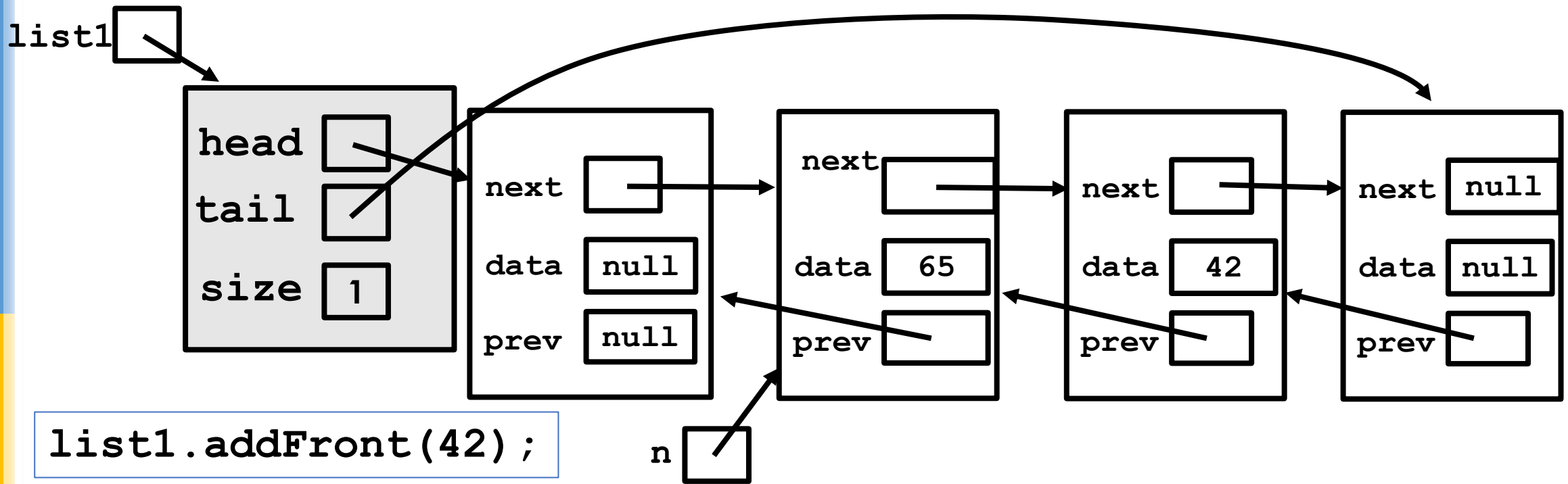


```
list1.addFront(42);
```

1. Create new node

2. Link new node in

```
n.next = head.next;  
n.prev = n.next.prev;  
n.next.prev = n;  
head.next = n;
```



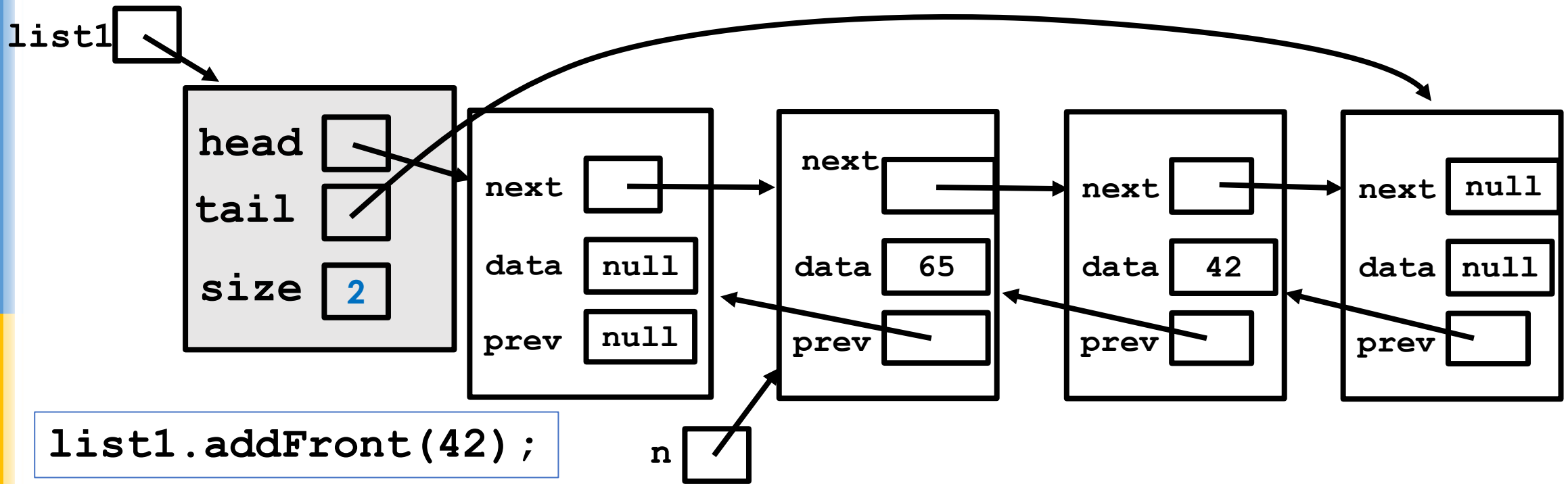
```
list1.addFront(42);
```

n

1. Create new node

2. Link new node in

```
n.next = head.next;  
n.prev = n.next.prev;  
n.next.prev = n;  
head.next = n;
```



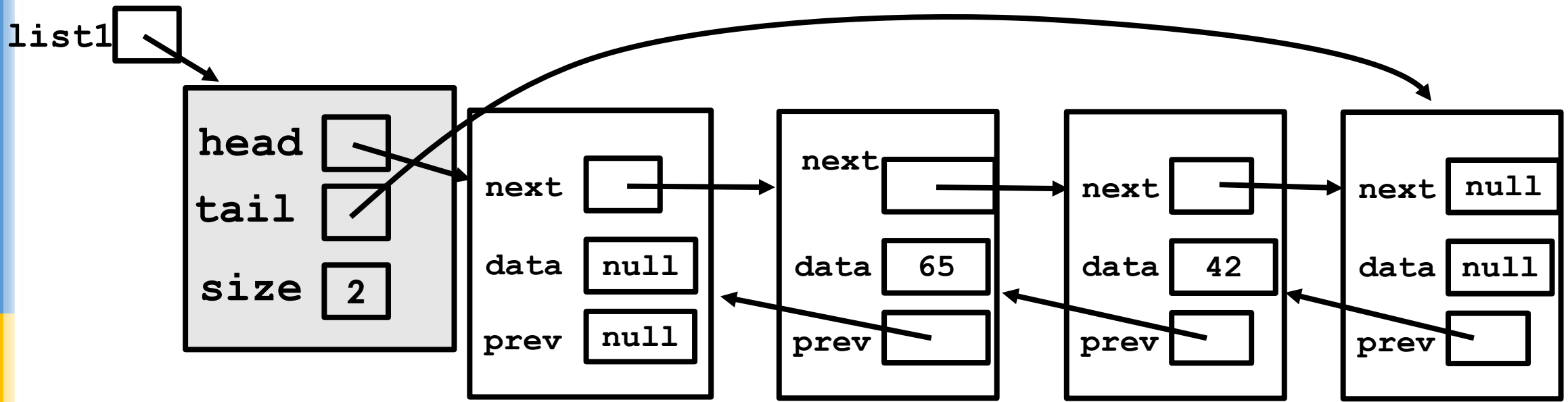
```
list1.addFront(42);
```

1. Create new node

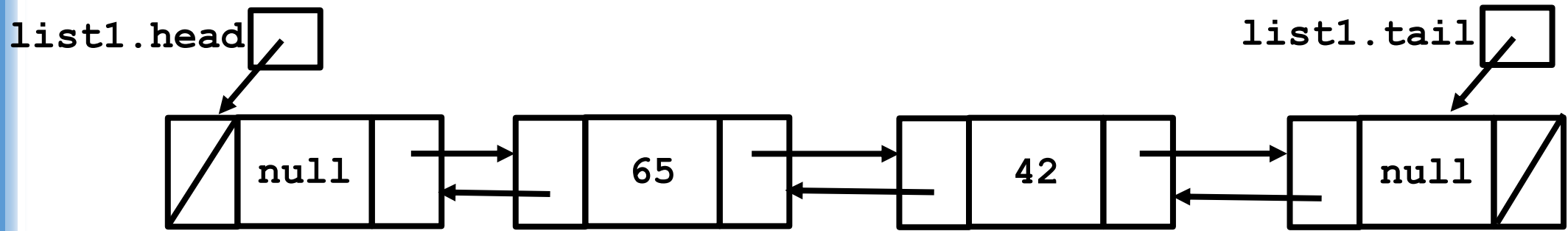
2. Link new node in

```
n.next = head.next;  
n.prev = n.next.prev;  
n.next.prev = n;  
head.next = n;
```

3. Update Size



DRAW PICTURES!!!
(You will probably get it wrong if you don't)



DRAW PICTURES!!!

(You will probably get it wrong if you don't)