

C:\> Users > YangYiShu > Desktop > lab > lab 6 > lab 6.java > lab6

```
1 //rotate a Doubly linked list
2 class lab6 {
3 //create a node
4 static class Node
5 {
6     char data;
7     Node previous;
8     Node next;
9 }
10 static Node head = null;
11 //function to rotate
12 static void rot( int n)
13 {
14     if (n == 0)
15         return;
16     Node current = head;
17     int j = 1;
18     while (j < n && current != null)
19     {
20         current = current.next;
21         j++;
22     }
23     if (current == null)
24         return;
25     Node found = current;
26     while (current.next != null)
27         current = current.next;
28     current.next = head;
29     (head).previous = current;
30     head = found.next;
31     (head).previous = null;
32     found.next = null;
33 }
34 static void sett(char new_data)
35 {
36     Node news = new Node();
37     news.data = new_data;
38     news.previous = null;
39     news.next = (head);
40     if ((head) != null)
41         (head).previous = news;
42     head = news;
43 }
44
45 /*print doublely linked list */
46 static void print(Node node)
47 {
48     while (node != null && node.next != null)
49     {
50         System.out.print(node.data + " ");
51         node = node.next;
52     }
53     if (node != null)
54         System.out.print(node.data);
55 }
56
57 //run
58 public static void main(String[] args)
59 {
60     sett( new_data: 'e');
61     sett( new_data: 'd');
62     sett(new_data: 'c');
63     sett(new_data: 'b');
64     sett( new_data: 'a');
65     System.out.println(x: "Original linked list ");
66     print(head);
67     rot(n: 2);
68     System.out.println();
69     System.out.println(x: "Final Linked list ");
70     print(head);
71 }
72 }
```

问题 1 输出 调试控制台 终端

Debug: lab6

Windows PowerShell  
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安装最新的 PowerShell。了解新功能和改进! <https://aka.ms/PSWindows>

PS C:\Users\YangYiShu> & 'C:\Program Files\Java\jdk-17.0.4\bin\java.exe' '-agentlib:jdwp=transport=dt\_socket,server=n,suspend=y,address=localhost:57845' '-XX:+ShowCodeDetailsInExceptionMessages' '-cp' 'C:\Users\YangYiShu\AppData\Local\Temp\vscodesws\_fd617\jdt\_ws\jdt.ls-java-project\bin' 'lab6'

Original linked list

a b c d e

Final Linked list

c d e a b

PS C:\Users\YangYiShu>