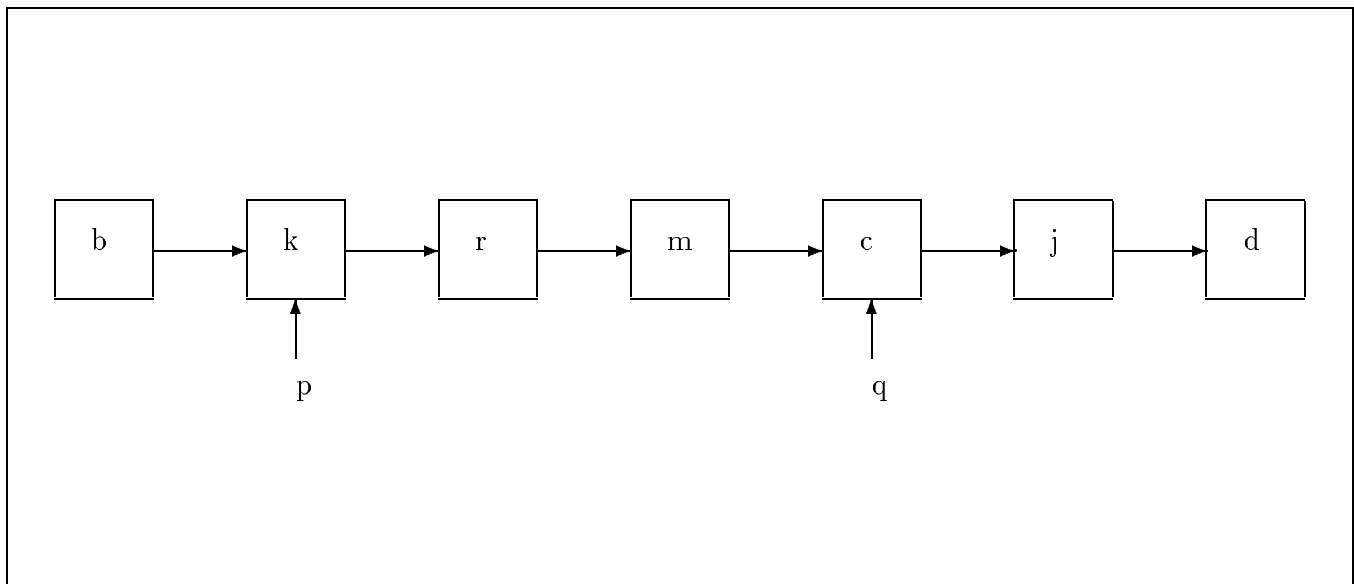
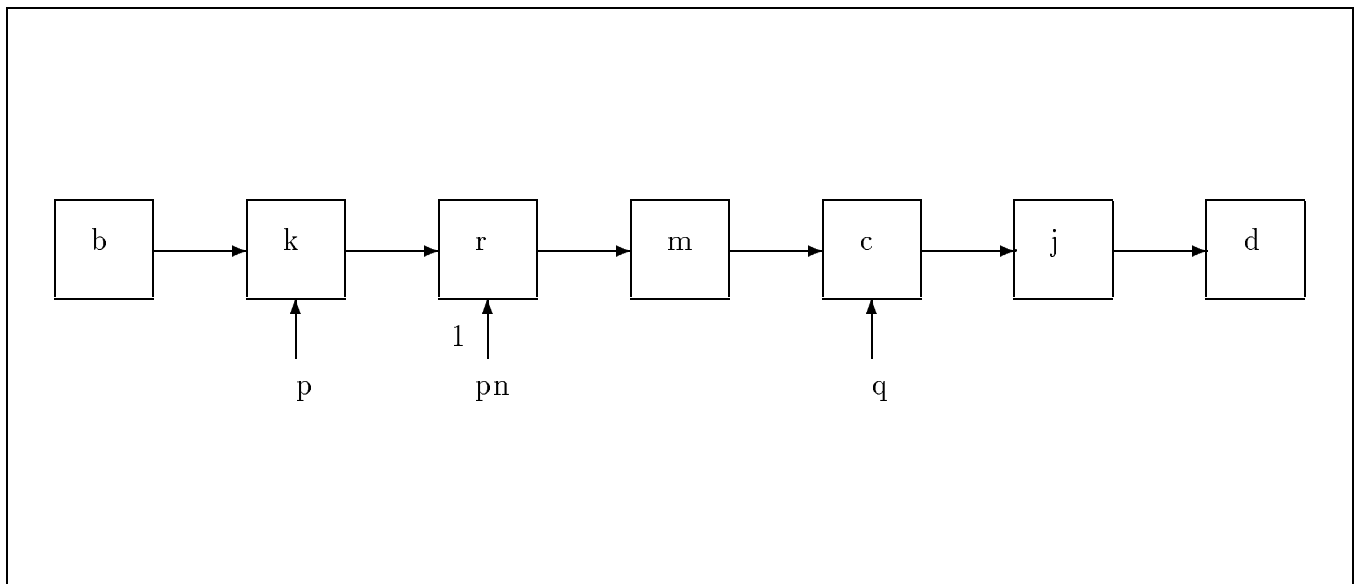


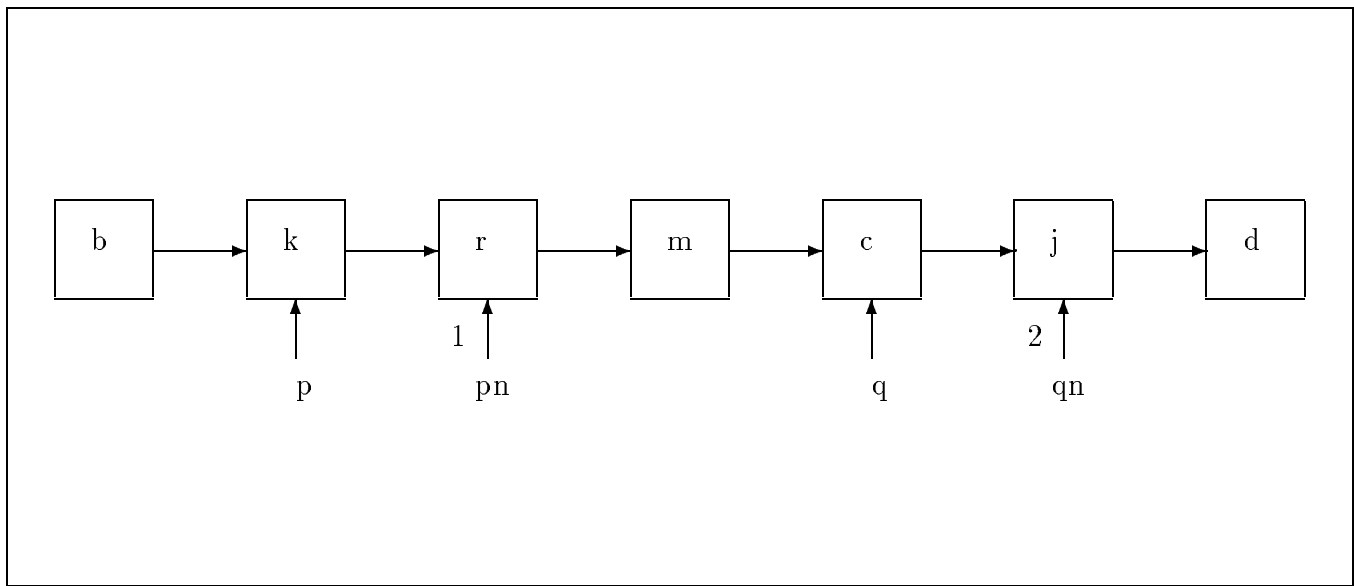


```
void swap(Node p, Node q) {  
Node pn, qn, pnn;  
    pn = p.next;          // 1  
    qn = q.next;          // 2  
    pnn = pn.next;        // 3  
    p.next = qn;           // 4  
    q.next = pn;           // 5  
    pn.next = qn.next;     // 6  
    qn.next = pnn;         // 7  
}
```

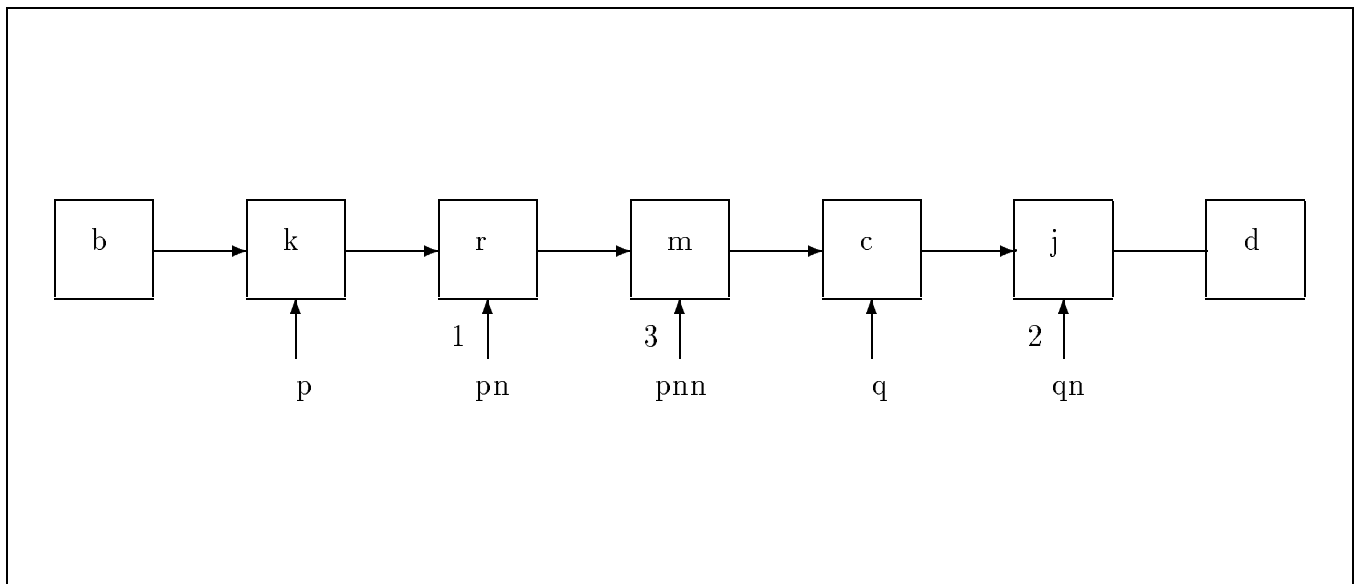
Here is an example swap function that attempts to move the pointers such that the 'r' node is swapped with the 'j' node.



```
void swap(Node p, Node q) {  
Node pn, qn, pnn;  
  
pn = p.next;      // 1  
  
qn = q.next;      // 2  
pnn = pn.next;    // 3  
p.next = qn;      // 4  
q.next = pn;      // 5  
pn.next = qn.next; // 6  
qn.next = pnn;    // 7  
}
```



```
void swap(Node p, Node q) {  
Node pn, qn, pnn;  
  pn = p.next;          // 1  
  
                          qn = q.next;      // 2  
  
  pnn = pn.next;        // 3  
  p.next = qn;          // 4  
  q.next = pn;          // 5  
  pn.next = qn.next;    // 6  
  qn.next = pnn;        // 7  
}
```



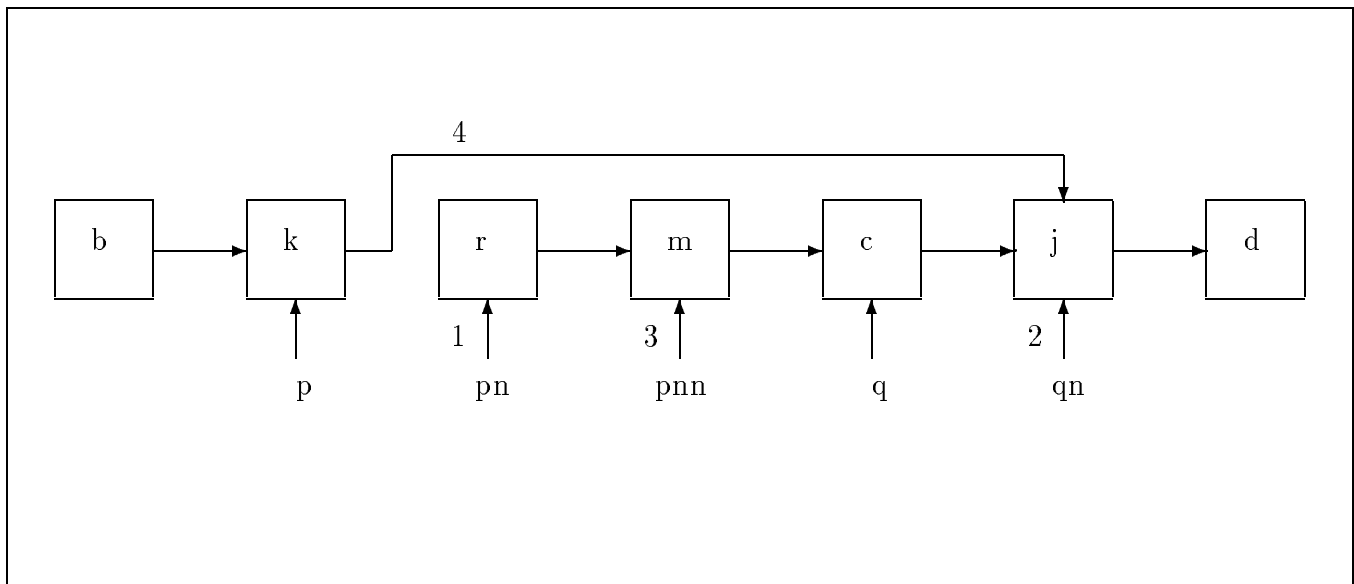
```

void swap(Node p, Node q) {
Node pn, qn, pnn;
  pn = p.next;          // 1
  qn = q.next;          // 2

                          pnn = pnn.next;      // 3

  p.next = qn;          // 4
  q.next = pn;          // 5
  pn.next = qn.next;    // 6
  qn.next = pnn;        // 7
}

```



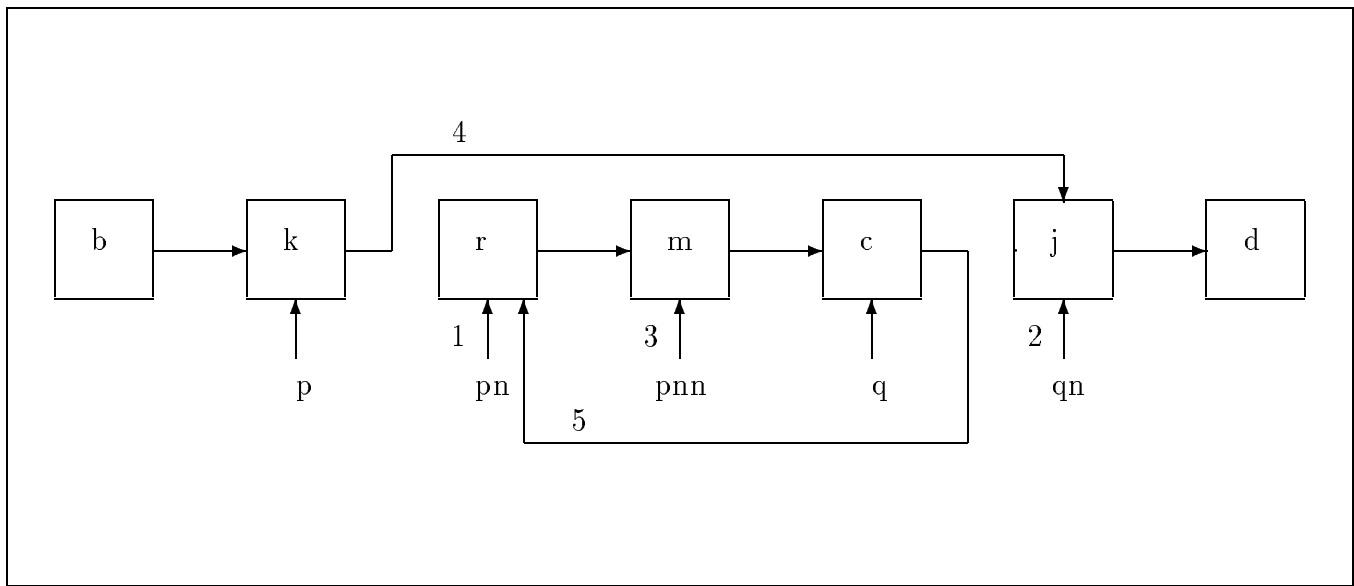
```

void swap(Node p, Node q) {
Node pn, qn, pnn;
  pn = p.next;          // 1
  qn = q.next;          // 2
  pnn = pn.next;        // 3

                          p.next = qn;          // 4

  q.next = pn;          // 5
  pn.next = qn.next;    // 6
  qn.next = pnn;        // 7
}

```



```

void swap(Node p, Node q) {
Node pn, qn, pnn;
    pn = p.next;          // 1
    qn = q.next;          // 2
    pnn = pn.next;        // 3
    p.next = qn;          // 4

```

```

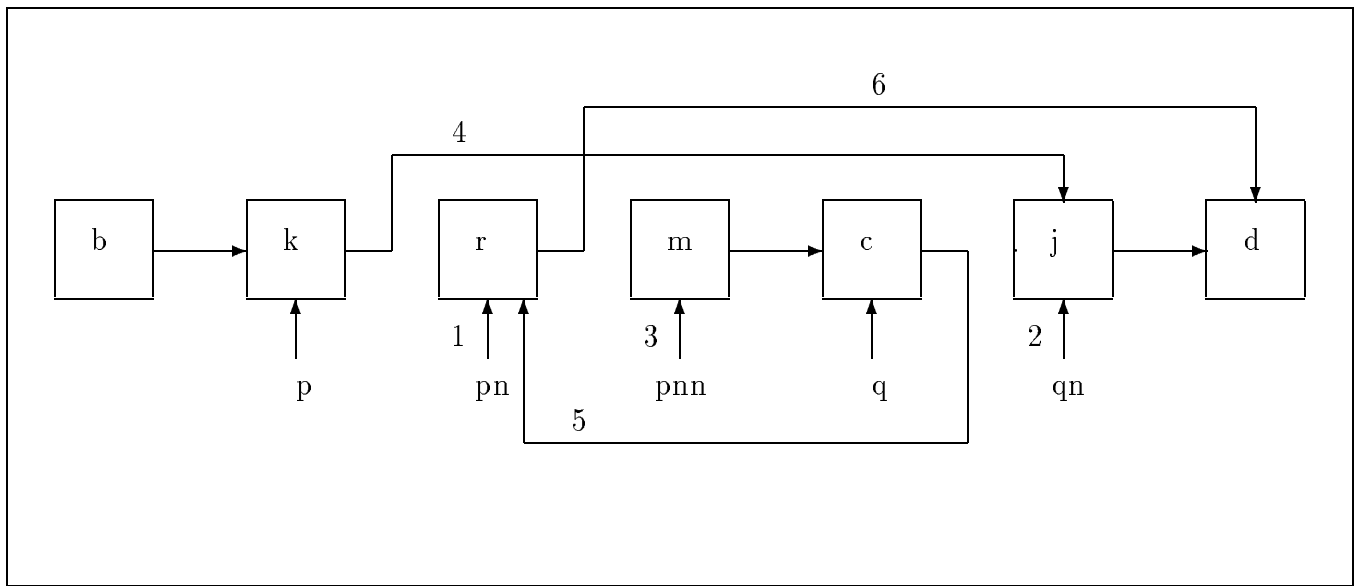
    q.next = pn;          // 5

```

```

    pn.next = qn.next;    // 6
    qn.next = pnn;        // 7
}

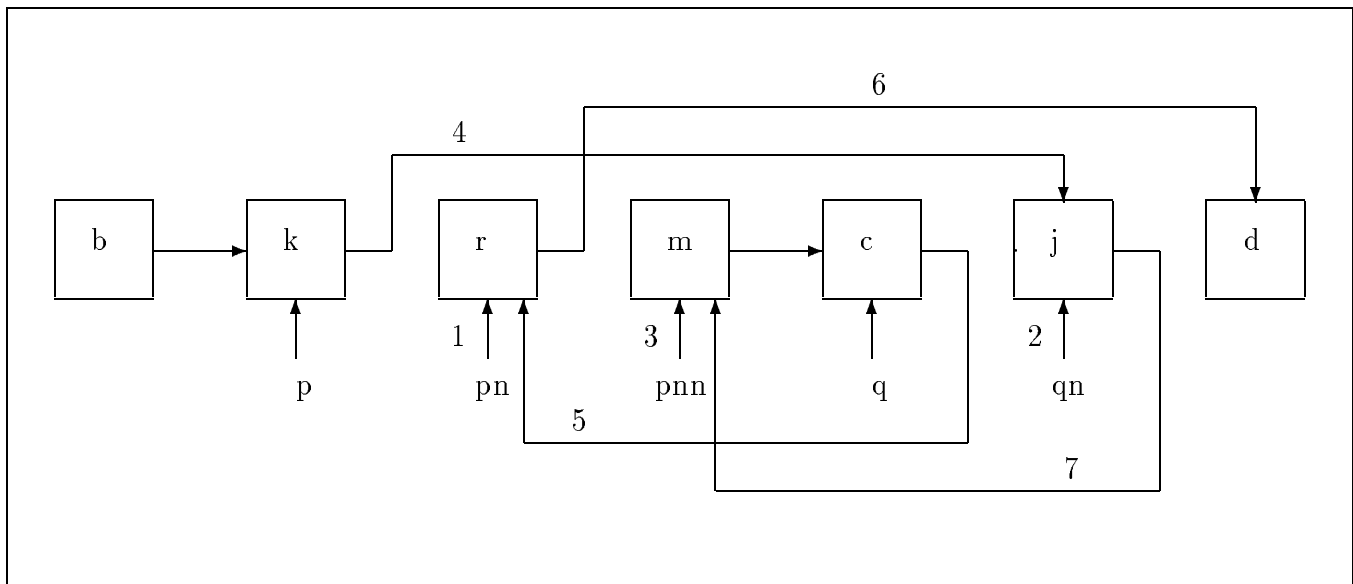
```



```
void swap(Node p, Node q) {
Node pn, qn, pnn;
    pn = p.next;          // 1
    qn = q.next;          // 2
    pnn = pn.next;        // 3
    p.next = qn;          // 4
    q.next = pn;          // 5

                                pn.next = qn.next;    // 6

    qn.next = pnn;        // 7
}
```



```

void swap(Node p, Node q) {
Node pn, qn, pnn;
    pn = p.next;      // 1
    qn = q.next;      // 2
    pnn = pn.next;    // 3
    p.next = qn;      // 4
    q.next = pn;      // 5
    pn.next = qn.next; // 6

                                qn.next = pnn;    // 7

}

```

PRINTOUT the list starting at head: b k j m c r d
 The code CORRECTLY swaps the 'r' node with the 'j' node.
 The code is not very clean but it does work.