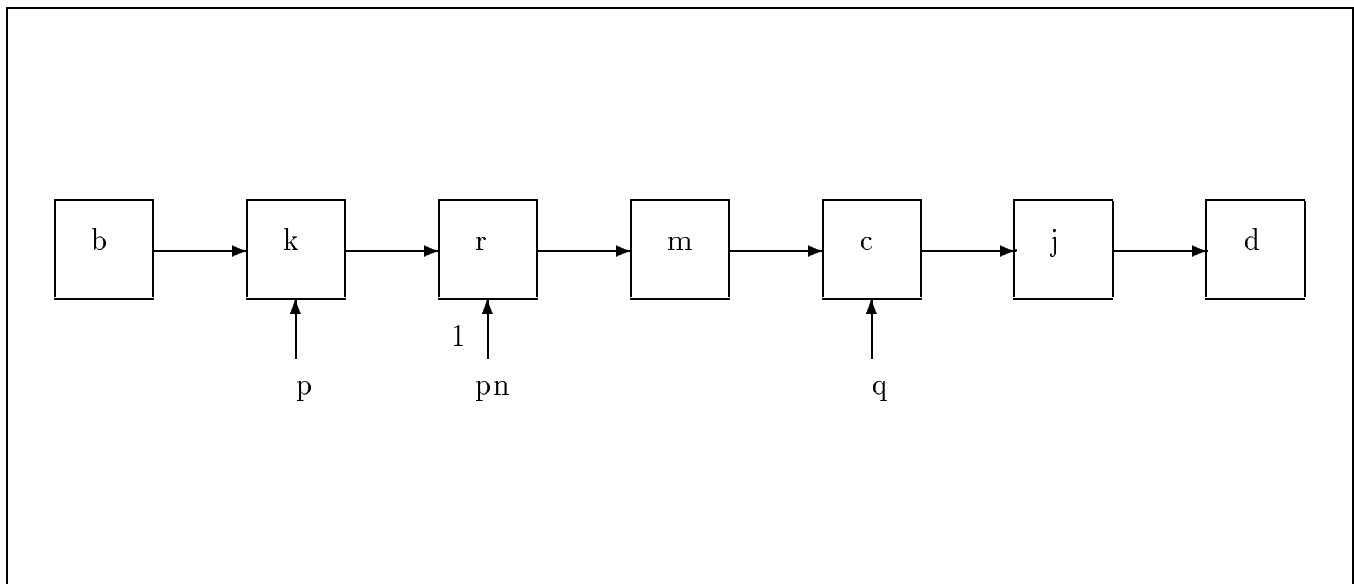


```
void swap(node_ptr p, node_ptr q) {  
node_ptr pn, qn, pnn;  
    pn = p->next;          // 1  
    qn = q->next;          // 2  
    pnn = pn->next;        // 3  
    p->next = qn;          // 4  
    q->next = pn;          // 5  
    pn->next = qn->next;    // 6  
    qn->next = pnn;        //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

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



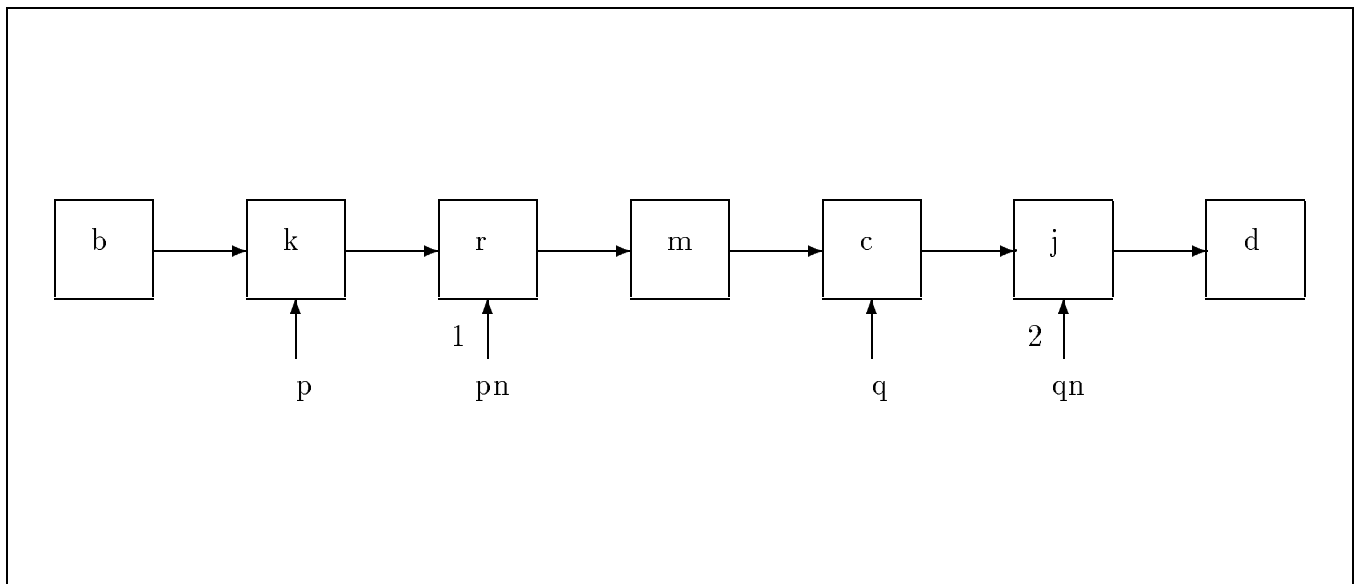
```

void swap(node_ptr p, node_ptr q) {
node_ptr 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
}

```



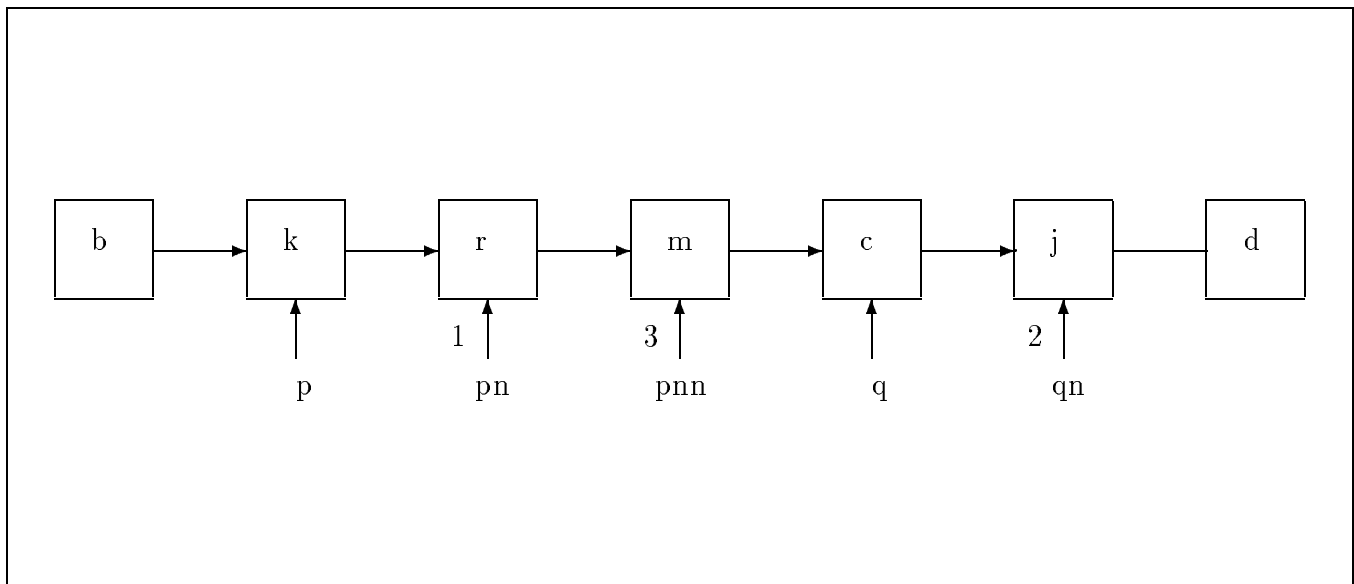
```

void swap(node_ptr p, node_ptr q) {
node_ptr 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
}

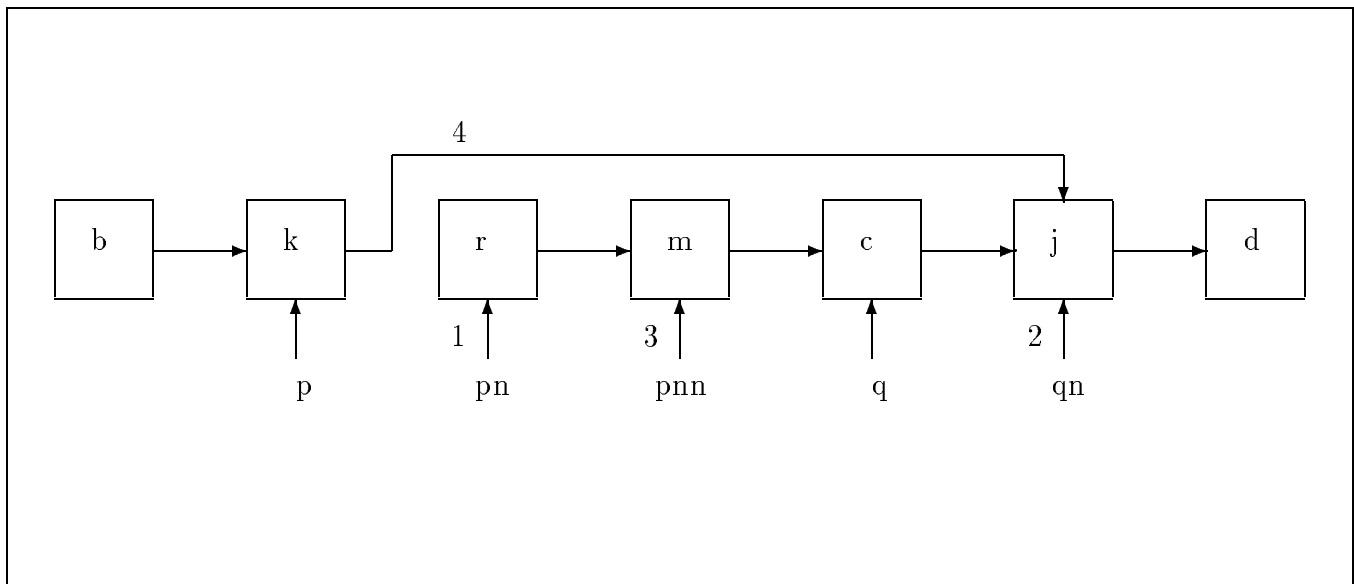
```



```
void swap(node_ptr p, node_ptr q) {
node_ptr 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
}
```



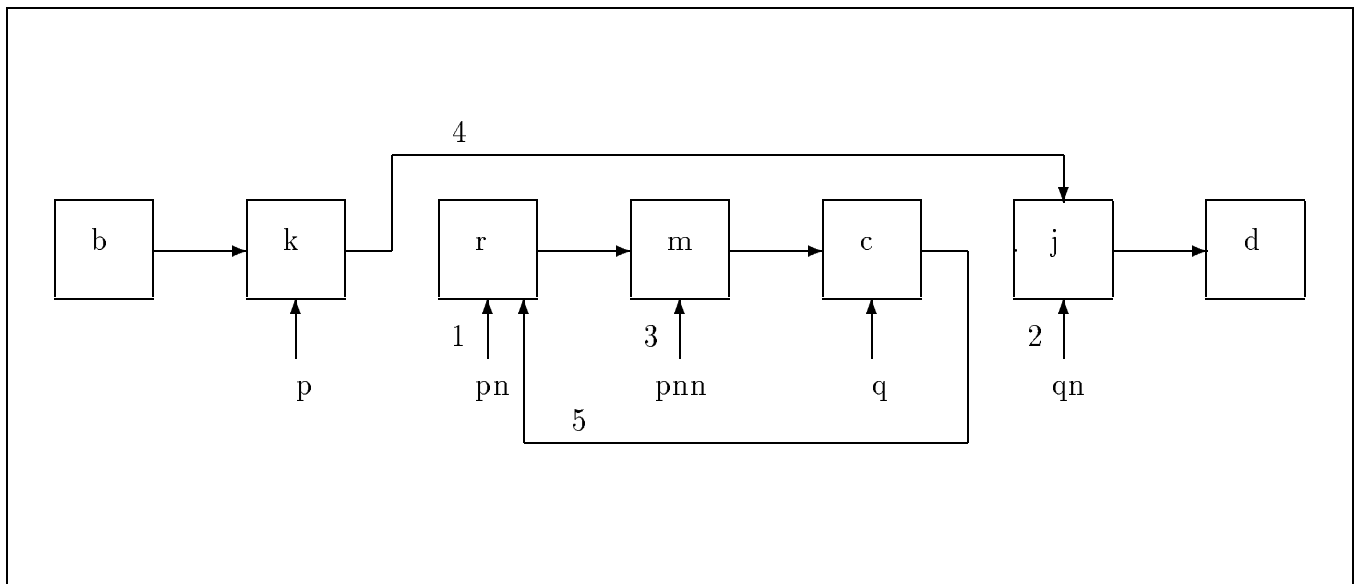
```

void swap(node_ptr p, node_ptr q) {
node_ptr 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
}

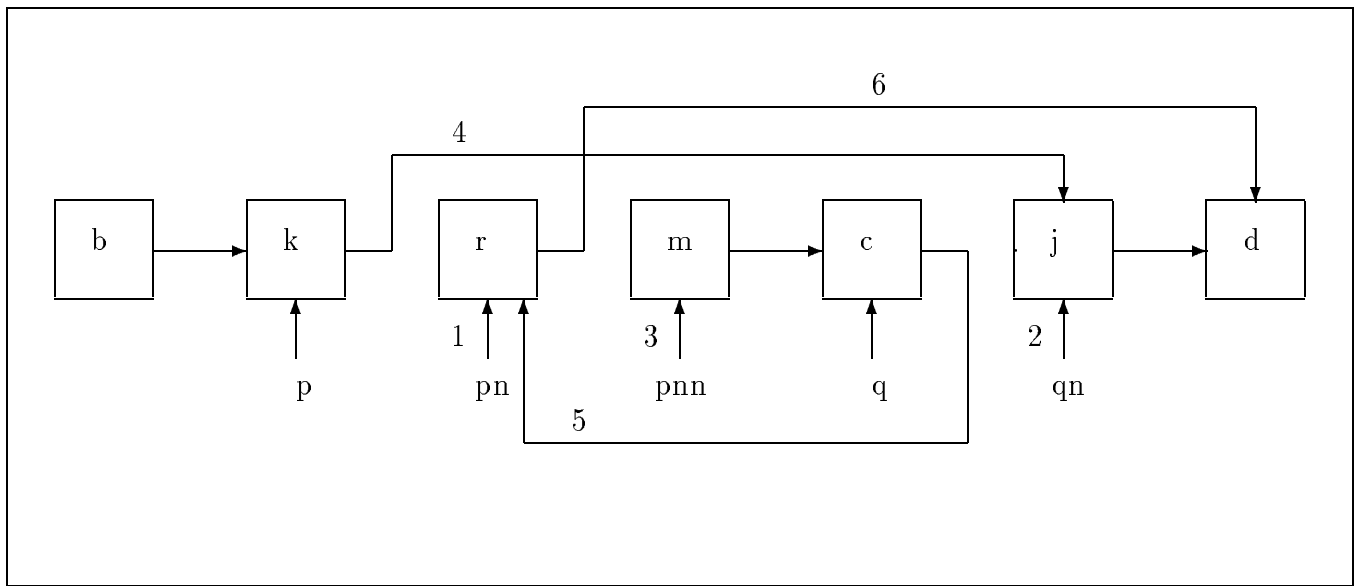
```



```
void swap(node_ptr p, node_ptr q) {
node_ptr 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
}
```

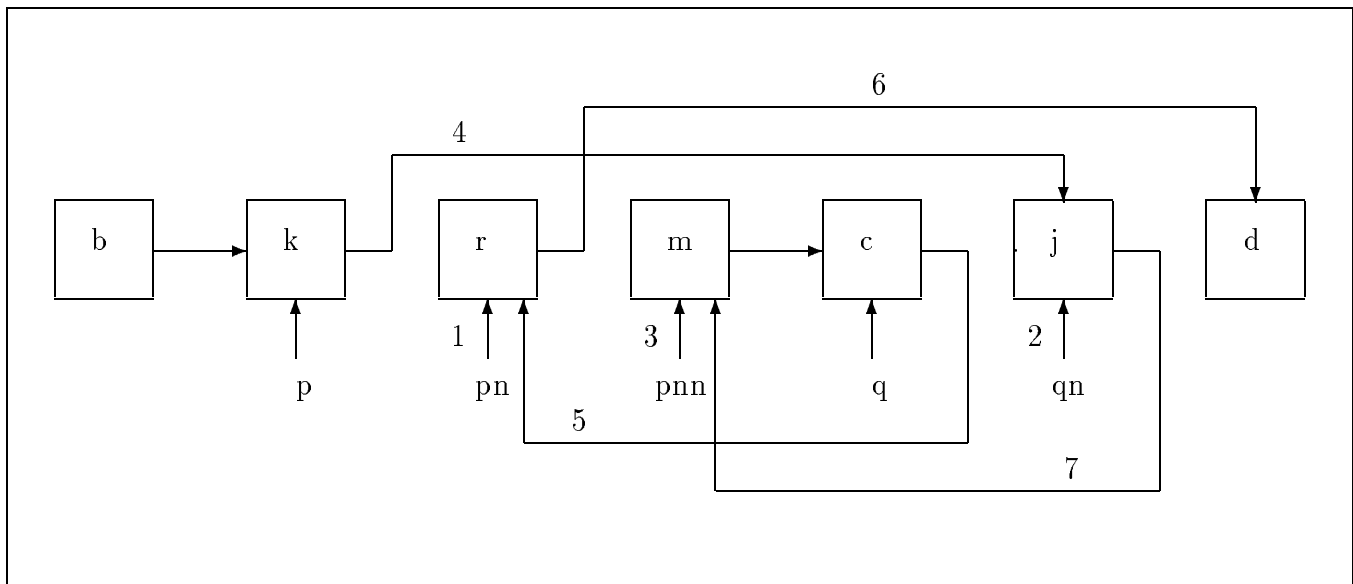


```

void swap(node_ptr p, node_ptr q) {
node_ptr 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_ptr p, node_ptr q) {
node_ptr 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.