

```
1: // $Id: linknode.cpp,v 1.1 2016-06-28 14:46:57-07 - - $
2:
3: #include <iostream>
4: using namespace std;
5:
6: struct node;
7: struct link {
8:     node* next {};
9:     node* prev {};
10: };
11: struct node: link {
12:     int value {};
13: };
14:
15: int main() {
16:     node* nn = new node();
17:     link* ll = nn;
18:     nn = static_cast<node*> (ll);
19:     cout << "nn = " << nn << ", sizeof = " << sizeof (node) << endl;
20:     cout << "ll = " << ll << ", sizeof = " << sizeof (link) << endl;
21:     char* p = new char;
22:     for (int i = 0; i < 8; ++i) {
23:         char* q = new char;
24:         cout << static_cast<void*> (q) << " " << q - p << endl;
25:         p = q;
26:     }
27: }
28:
29: //TEST// linknode >linknode.out 2>&1
30: //TEST// mkpspdf linknode.ps linknode.cpp* linknode.out
31:
```



```
1: nn = 0x211a010, sizeof = 24
2: ll = 0x211a010, sizeof = 16
3: 0x211a050 32
4: 0x211a070 32
5: 0x211a090 32
6: 0x211a0b0 32
7: 0x211a0d0 32
8: 0x211a0f0 32
9: 0x211a110 32
10: 0x211a130 32
```