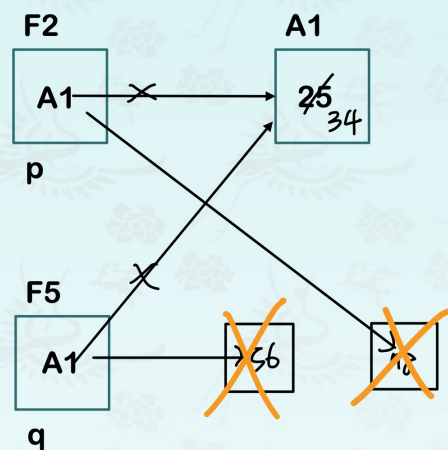


// On my honour, I pledge that I have neither received nor provided improper
// assistance in the completion of this assignment. Signed: ____Jungyiju____ Student Number: ____22000690____

Pointer reviewed – Quiz

```
int* p = new int(25);  
cout << *p << endl;  
int* q = p;  
cout << *q;  
*q = 34; delete p;  
q = new int(56); // keep this line  
p = new int(78); // keep this line  
delete p;  
delete q;
```

Example 2



1. Complete the memory diagram based on the code above, as it is shown.
2. Then, add one line to fix a bug shown in the memory diagram.

Pointers Linked – Quiz

Link a, b and c nodes;

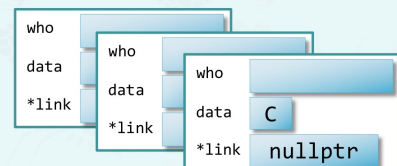
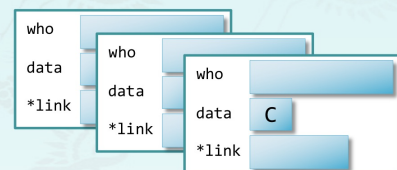
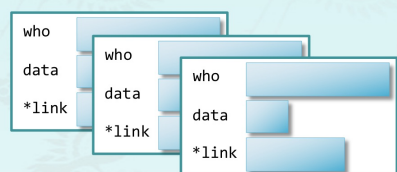
```
struct List {
    string who;
    char data;
    List *link;
};
```

```
List a, b, c;
List *p, *q, *r;
```

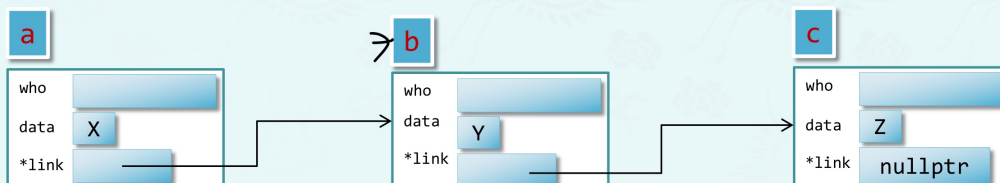
$p = \&a;$
 $q = \&b;$
 (1) $r = \&c;$

$p \rightarrow \text{data} = 'X';$
 $q \rightarrow \text{data} = 'Y';$
 (2) $r \rightarrow \text{data} = 'Z';$

$p \rightarrow \text{link} = q;$
 $q \rightarrow \text{link} = r;$
 (3) $r \rightarrow \text{link} = \text{nullptr};$



- (1) Let each p, q, and r point to a, b, and c;
- (2) Store each 'X', 'Y', and 'Z' in data using p, q, and r.
- (3) Connect them using p, q and r as shown below:



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