

## CSE 143 Au00 Quiz 2 – October 12, 2000

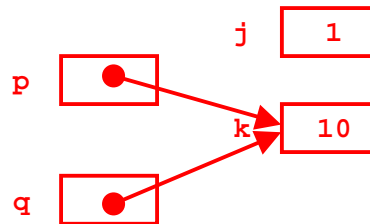
For each of the following questions, **draw a boxes-and-arrow diagram** showing the contents of variables *after* all of the statements in the question are executed. *However*, if there is an **error** in the code (either at compile time or during execution), give a **brief explanation of the problem**. (Any problems will be logic errors of some sort, not syntax errors like a missing comma, etc.)

1. 

```
int n1;  
int *n2;  
int *n3;  
n2 = &n1;  
n3 = &n2; ← Type error here; n3 has type int*, &n2 has type int** (pointer to int*).  
*n3 = 10;
```

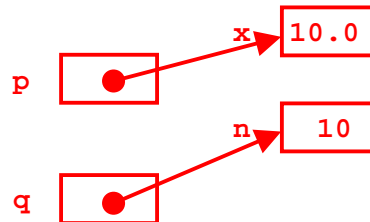
2. 

```
int j=1, k=3;  
int *p; int *q;  
p = &j;  
q = &k;  
p = q;  
*p = 10;
```



3. 

```
double *p;  
int *q;  
int n=10;  
double x = 3.5;  
p = &x;  
q = &n;  
*p = *q;
```



4. 

```
int j=2, k=4;  
int *p;  
p = new int;  
*p = k;  
j = *p*k;
```

