me:	CS along
	Co class
t all answers in boxes. Nothing you	write outside the boxes will be counted. Did you bring an eraser?
then some 0's. The first pattern, (pth pattern (pattern p) has p more Example: if n=3, then the progr	
nt main(int argc, char *argv[]	) {
<pre>return 0; }</pre>	
	Write a program that counts the total number of sequences consisting and newline $(.\n\n)$ . It should print out the only the final count.
nt main(int argc, char *argv[]	) {
return 0;	

3. Write the function square that is passed the address of the first node of the list. The function replaces the data in each node with its square. typedef struct NODE { int data; struct NODE \*next; node\_t; int square(node\_t \*curr) { } 4. A BST is constructed in the usual way using the node definition below. Write the function void rotate( bst\_node\_t \*curr) that is passed a pointer to the node containing A. See the picture on the next page. It changes some pointers to make the BST correspond to the AFTER picture. typedef struct BST\_NODE\_T int data; BST\_NODE\_T struct \*left, \*right; bst\_node\_t;

## 5. Write the function

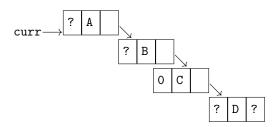
int count1(int n)

where  ${\tt n}$  is a 32-bit int. The function counts and returns the number of 1 bits in  ${\tt n}$ .



Problem 4 pictures:

BEFORE:



AFTER:

