2.0	3. 45
-> 18 -> 43 -> 8	10
43	
3 3 10 2 3	3
10	
	8
4. When n is even:	
7(n)-7(n-1) = (,n+C,	
f(n2) - 7(n-4) = (1 (n-2) + (2	
f(2) - 700) = (, x 2+ L2.	
Add up all functions above,	
we can have:	
$\frac{7(n) - 7(0)}{7(n)} = \frac{C_1 \left[ h_1(n_2) + \dots + 2 \right] + \frac{n}{2} \cdot C_2}{7(n)} = \frac{(n_2) \cdot n}{4} \cdot C_1 + \frac{n}{2} \cdot C_2 + C_0$ $= \frac{C_1}{4} n^2 + \frac{(u_1(u_2))}{2} n + C_0.$	
7(n) = 4. C1+ 2. C2+ C	
$= \mp n + \frac{1}{2} + C_0.$	
So the complexity of ?	(Ch) (5 Cchi).
t(::)	
public class Odd {	Worst case: all its nodes are looked through.
<pre>public int numOdd(Node r) {    int count = 0;</pre>	fin) = (n+(1). (h+(1) = n2+2cin+(2.
<pre>if(r.isLeaf()) {     return 0;</pre>	The complexity 25 Ochi).
}	
else { if((r.numChildren()%2==1)) {	
count+=1; }	
Node[] children = r.getChildren(); for(Node u: children) {	
count+=numOdd(u); } n	
}	
return count; }	
}	
6. Since is increm	ented to 0,1,2, I would be inverented
by 1, 2,3 , \(\sum_{n}\)	1. So there're in times the while loop goes.
for each while - bop, there're three basic operation.	
6. Since is incremented to 0,1,2, 3 would be incremented by 1,2,3, in n= \frac{\text{(nt)}n}{2}. So there're n times the while loop goes. For each while loop, there're three basic operation.  So fin) = 2+3n, Complexity is O(n).	