import java.util.\*;

class koushik2

{

static class Node

{

int val;

ArrayList<Node>children;

public Node (int val)

{

this.val=val;

this.children=new ArrayList<Node>();

}

};

static class Pair

{

Node first;

int second;

public Pair(Node node,int val)

{

this.first=node;

this.second=val;

}

}

static int evenOddLevelDifference(Node root)

{

int evenSum=0,oddSum=0;

Queue<Pair>q=new LinkedList<>();

q.add(new Pair(root,1));

while(!q.isEmpty())

{

Pair currNode=q.poll();

int currLevel=currNode.second;

int currVal=currNode.first.val;

if(currLevel%2==1)

{

oddSum+=currVal;

}

else

{

evenSum+=currVal;

}

for(Node child: currNode.first.children)

{

q.add(new Pair(child,currLevel+1));

}

}

return (oddSum-evenSum);

}

public static void main(String args[])

{

Node root=new Node(4);

root.children.add(new Node(2));

root.children.add(new Node(3));

root.children.add(new Node(-5));

root.children.get(0).children.add(new Node(-1));

root.children.get(0).children.add(new Node(3));

root.children.get(2).children.add(new Node(-2));

root.children.get(2).children.add(new Node(6));

System.out.println(evenOddLevelDifference(root));

}

}