420-B31

Lab 10 Answers

Name:

## Give the base case and recursive case for a recursive method, **printOdds(int n)** that prints all the odd numbers between 1 and n.

***Answer:***

|  |  |
| --- | --- |
| Base Case:  If (n < 0) throw new illegalargumentException |  |
| Recursive Case: | If (n%2==1)  Call printOdds(n+1) |

## Give the base case and recursive case for a recursive method, **calcProduct(int m, int n)** that uses recursion to find the product of m \* n.

***Answer:***

|  |  |
| --- | --- |
| Base Case: N < 0 | If the base is not greater then 0 (n <= 1) then throw an illegalargumentexception()  If the base is 1 (n== 1)  Return M |
| Recursive Case: | If the two specified case do not occur then call prod + calcProduct(m, n-1) |