

```
//  
// MathUtil.cpp  
// CppTests  
//  
// Created by Stewart Bracken on 12/9/13.  
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//  
  
#include "MathUtil.h"  
  
//This function has possible overflow from dividend + divisor  
static int div_ceil_overflow(int dividend, int divisor){  
    return (dividend + divisor - 1) / divisor;  
}  
  
int div_ceil(int dividend, int divisor){  
    if(dividend == 0)  
        return div_ceil_overflow(dividend, divisor);  
    return 1 + ((dividend - 1) / divisor); // if x != 0  
}
```