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```
// MathUtil.cpp
// CppTests
//
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//
//
// MathUtil.h
// CppTests
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//
#ifndef __InterviewTests__MathUtil__
#define __InterviewTests__MathUtil__
#include <iostream>
int div_ceil(int dividend, int divisor);
#endif /* defined(__InterviewTests__MathUtil__) */
//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
}
```