**第一题：**

**<?php  
function** getIntersection($str1,$str2){  
  
 **if**(**empty**($str1) || **empty**($str2))  
 **return false**;  
  
 $str1ToArrayexplode = *explode*(**' '**,$str1);  
 $str2ToArrayexplode = *explode*(**' '**,$str2);  
  
 $interArray = *array\_intersect*($str1ToArrayexplode,$str2ToArrayexplode);  
  
 **return** *count*($interArray)>=0?*array\_shift*($interArray):**null**;  
  
}  
  
*var\_dump*(getIntersection(**'This is C programming text'**,**'This is a text for C programming'**));

**第二题**

**<?php  
function printArithmeticProgression($num)  
{  
 if (!is\_int($num) || $num > 10000 || $num <= 0) {  
 die('请正确传参数');  
 }  
 $ret = traverse($num);  
 if (empty($ret)) {  
 die('NONE');  
 }  
 echo '分解组合如下：（共', count($ret), '组）' . '<br>';  
 foreach ($ret as $k => $v) {  
 echo '第' . ($k + 1) . '组：' . implode(' ', $v) . ' <br>';  
 }  
}  
  
function traverse($num)  
{  
 $ret = $arr = [];  
 // 负整数处理  
 for ($i = 1; $i < $num; $i++) {  
 for ($j = 0; $j < $num; $j++) {  
 if (2 \* $num == (2 \* $i + $j - 1) \* $j) {  
 $arr[] = [$i, $j];  
 }  
 }  
 }  
 foreach ($arr as $v) {  
 $ret[] = range($v[0], $v[1] + $v[0] - 1);  
 }  
 return $ret;  
}  
  
printArithmeticProgression(1500);**