**Code:**

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| // Problem 6. Least Common Multiple  // Find LCM(1234, 3456).  using System;  public class LeastCommonMultiple  {  public static int determineLCM(int a, int b)  {  // finding out which one of the two input numbers is bigger  int num1, num2;  if (a > b)  {  num1 = a; num2 = b;  }  else  {  num1 = b; num2 = a;  }  // the code below considers two scenarios:  // \* either the bigger of the two numbers is directly divisible by the smaller one (exmample 8 and 4),  // in which case the smaller number is the LCM (return num2;)  // \* or we keep multiplying the bigger number with all numbers between 1 and the value of the smaller number  // untill we reach a multiple of the bigger number which is also divisible by the smaller number (example 8 and 12; 12 \* 2 /8 = 3)  // in the worst case, we will reach product of num1 and num2, which could also happen to be their LCM, as with 3 and 5, where LCM = 15;  for (int i = 1; i <= num2; i++)  {  if ((num1 \* i) % num2 == 0)  {  return i \* num1;  }  }  return num2;  }  public static void Main(String[] args)  {  // applying the above method  int result = determineLCM(1234, 3456);  // printing the result  Console.WriteLine("LCM of {0} and {1} is {2}\n", 1234, 3456, result);  }  } |

**Output:**

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| LCM of 1234 and 3456 is 2132352  Press any key to continue . . . |