**Greatest common divisor**

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Find the greatest common divisor of two positive integers. The integers can be large, so you need to find a clever solution.

The inputs x and y are always greater or equal to 1, so the the greatest common divisor will always be an integer that is also greater or equal to 1.

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public static int Gcd(int a, int b)

{

// your code here

if (a == 0)

return b;

return Gcd(b % a, a);

}

public static int Gcd(int a, int b)

{

int hcf = 1;

int lowest = Math.Min(a, b);

int highest = Math.Max(a, b);

while (lowest != 0)

{

hcf = highest % lowest;

highest = lowest;

lowest = hcf;

}

return highest;

}