

12	Define Stack. List the different applications of stack.
13	<p>The Greatest Common Divisor of two integers x and y is defined as follows,</p> $\begin{aligned} \text{gcd}(x,y) &= y && \text{if } (y \leq x \ \&\& \ x \% y = 0) \\ \text{gcd}(x,y) &= \text{gcd}(y,x) && \text{if } (x < y) \\ \text{gcd}(x,y) &= \text{gcd}(y, x \% y) && \text{otherwise} \end{aligned}$ <p>Write a recursive C function to compute gcd (x, y). Also find for how many times the recursive function is called for the values of gcd (20,75).</p>