1. Chebychev polynomials $T_n(x)$ of the first kind are defined as follows:

$$T_0(x) = 1, \quad T_1(x) = x, \quad T_n(x) = 2xT_{n-1}(x) - T_{n-2}(x), \text{ for } n \geq 2.$$  

Write a recursive function `Chebychev` to compute $T_n(x)$. Input arguments of `Chebychev` should be $n$ and $x$.

2. Consider a recursive gcd. Calling `gcd(1244,8888)` leads to a trace of its execution:

```python
def gcd(a, b):
    r = a % b
    if r == 0:
        return b
    else:
        return gcd(b, r)
```

Modify `gcd` so it displays a trace of its execution as shown on the right above.