

Write the recursive method **Power** that takes two integers (***base*** and ***exponent***) and calculate the ***base*** to the power of ***exponent***.

The function's signature: `public static int Power(int base, int exponent)`

Example: `Power(2, 4)` is 16.

Write the recursive method **search** member of the class `LinkedList`. That search for an element **e** and return true if found. False otherwise.

The function's signature: `public boolean (T e)`

Write the static recursive method **search**. That search for an element **e** in a `List l` and return true if found. False otherwise.

The function's signature: `public static <T> boolean (List<T> l, T e)`

Write the static recursive method **PrintQueue**. That prints the elements of the `Queue q`.

The function's signature: `public static <T> void PrintQueue(Queue<T> q)`

Write the static recursive method **ReversePrintQueue**. That prints the elements of the `Queue q` in reverse order.

The function's signature: `public static <T> void ReversePrintQueue(Queue<T> q)`