Print a link list

Ptr = start ptr

Until next ptr = 0 or found = true

If ptr = item then

 Found = true

End if

Ptr = next ptr

End loop

If found = false then

 Print “item not found”

End if

 Advantages of link list

You can delete by only altering one node

You can add but altering two nodes

It’s dynamic

Disadvantages of link lists

If a single node is corrupt it loses the rest

Has to hold extra data

Cannot get there directly, must cycle through entire list

*Link table’s question*

Differences between static and dynamic data structure

Dynamic doesn’t waste space and adapts its size to what is required.

Static has to have a pre-set size upon creation and waste allocated memory space it is not using.

Why is dynamic more efficient at adding new items

A static must move all lower items down one then add, a dynamic structure takes one pointer and points it at the new item and the new item points to the last items last pointer – it only changes 2 values whereas static must change many. This is time consuming

What will the heap be used for in the dynamic implementation.

A link list of places that are available in memory to store data

On dynamic link list creation what will the integer values stored in a pointer represent?

Algorithm to add priority thing