

Decrease and conquer:

-1

· Insertion Sort

· Topological Sort

• Top-Down approach:

→ naturally recursive

$[0 \dots n-1]$

$[0 \dots n-2]$

· Bottom up approach (Incremental)

Insertion Sort

sorted

sorted

sorted

sorted
 $v = A[i]$
 $j = i-1$

}

• Shell Sort

x				x				x			
.				.				.			
y		y		y		y	y	y			
i	i	i	i	i	i	i	i	i	i	i	i

} Do this in hopes that it will
get sorted w/out going through
all of the array

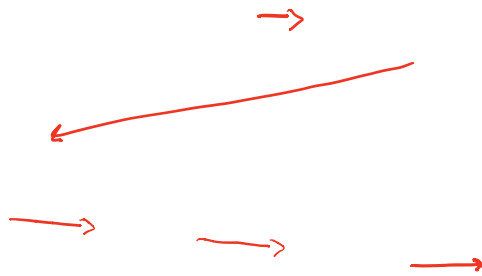
• Topological Sorting

→ Capturing dependencies between vertices

} 1 class per
Semester

• Approach 1:

• Approach 2: Incremental approach



$\frac{1}{2}$

• Binary Search

ex:

X
not here!

O
here!