

















































































Greedy Knaps def knapsack_greedy (items, maxwei result = [] weight = 0 while True:	ack Algorithm
<pre># try to add the best item weightleft = maxweight - weight bestitem = None for item in items: if item.weight <= weightleft \ and (bestitem == None \ or item.value > bestite bestitem = item if bestitem == None: break else: result.append (bestitem) weight += bestitem.weight return result</pre>	Running Time $\in \Theta(n^2)$
Lecture 24: P=NP?	43 Computer Science



