



We'll have a function ralled
"solve"
input: * a list of remaining items > items left

(weight, value) pairs

* capacity_left

output: the best solution as a list of items (weight, value) pairs

Ex3: Weighted Interval Scheduling Requests R= \(\frac{2}{1.172}\rs.\ldots.\frac{3}{2}\)

You either accept or reject each request. If you accept i then in the future you can ignove all requests that conflict

with ri. Backtracking	is perfect	(3)
for this.		
R = 51,, 1,03	Define R'= n	equests
7.7	Define R'= re that don't ro	nflid
Otto	with r.	
50/ve ({r,, r, 3})	Return (r.] + 9	olve (Z')
To the state of th		
X		
	return solve	(fr,r,3)
Pseudorade		
function solve (requests)	• •	
# output: best sol. n	nade from Trea	nests 7
# output: best sol. n is len(requests) = 0:		
return []		
new_request = requests l	[0]	
compatible = requests c	compatible with ne	w-request
accept_solution = [new_re	quest 1 + solve (con	upatible)
reject-solution = solve	(requests[1:])	
return whichever of	accept or reject	is best