

2) 0/1 Knapsach with niters & topacity W

a) For an O/1 knopsach poolen with niterns, It will generate 2" solutions when solved briteforce, hence the O(2") the complexity. Many solutions will be invalid at the 2".

Towerbot (1)

O Bourd Lusing upper, not low some temposition of the problem.

A and temposition of problem.

1= add item 2= don't add

Upper bound (n, value, weight, w) no terms, We capacity
for all Hen in set of tems considered to each, skip ikm if not included (0 branch)
fotal value to Henriche, total weight to all item in set of items not added yet to knapsack

for all item in set of items not added yet to knapsacke totalweight t= Item. weight

It total weight > W (ignor items that would exceed limit W.).

continue to next Item

else total weight to Item. neight, totalvalue to Item. value refer n total value

* Return best estimate at possible values second on current state (neight e value)