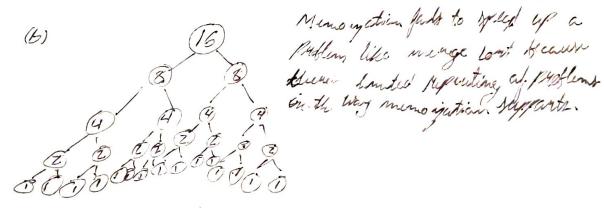
Algorithmic Hambourle 5

1. (a) ((A, × A, XA, XA, XA, × AG))

Indicted Styr Sygrest for some & 21 that each integer on whith 15MSk (A,...Ax)

2 (a) The many efficient way at determining aptimed munder as included as included as including appreciate hat well placed the hat we write appreciate hat we were are subjected in the recurrent are each subjected in the recurrent than once



(C) This problem does exelled optimed rulestmucture. It, any of the referrolleme had a letter solution then a gener solution that would have a larger final cost.

4. (a) 0-1 Knop Sack (dum: stump, capacity)

y appreciate == 0 an stum== mell

Meturn 0

y item [0] > Cayarrity

Meturn 0-11/map Sach (items, Capacity)

else

Mehren largest of (0-1/map Sack (items, capacity),

item [1] + 0-1/map Sack (items, capacity-item [0])

5. (a) e(s, M, i, j)

Milliam M-j+i-WestSum(5)

Ward Sum (51:51) Neturn ling (6(5) + Ward Sum (50)

(C) bl(5, M, i, j)

4 e(5, M, 1, 1) ≥ 0

return e(5, M, i, j)

(e) mb(S,M)
mbHelpey(S,M,O,O)

methelper(5, m, i, j)

if j == lingth(5) # if we got I to len(5) without "ketting" then

return 0

that the last line

else if bl(5, M, 1, 1) == int Meturn (1(5, M, 1, 1) + mb Helpen(5, M, 1-1, 1-1)

Metury mbHdger (5, M. i, 1+1)

(f) M15 (5, M, i)
Milway MH Hyper (5, M, 1, i) MI belger weatherged from &