1 = Si-1 + 3 (Min) = 15

2. VAJE

1: POPOVITEV OI1 NAHRBTMKA

Whod: predmeti (N, vi) Ra i=1,..., m velikost naholitnika ve

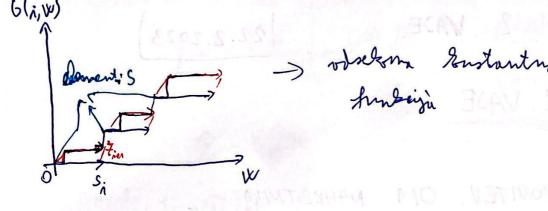
Dehod: $X = (x_1, ..., x_m)$; $X_i = \begin{cases} 1 \\ 0 \end{cases}$ reamen i-ti padmet tate, de & Ni Xi & W in & wixi materimalna morna

G(i, W) = malsimalna vsednost mlistrika s predmeto 1,..., i in relibertzio W

6(i, W) = max (6(i-1), W), 6(i-1, W-Ni)+Ni)

6(i, W) gledamo kot Junkijo spemenlijivk W(6(i,:))

tember it-2 (1)



Si ... opinge 6 (i, i)

Zi ... oving G(i,) fi somer i-ti prednet numerno

Zi = Si-1 + (Mini) =

= [(W+Ni, N+ Ni) for W, N in Si-1]

=> Si = " Alitje Si-1 in 7i

ne verment
i-tern element
i-tern element

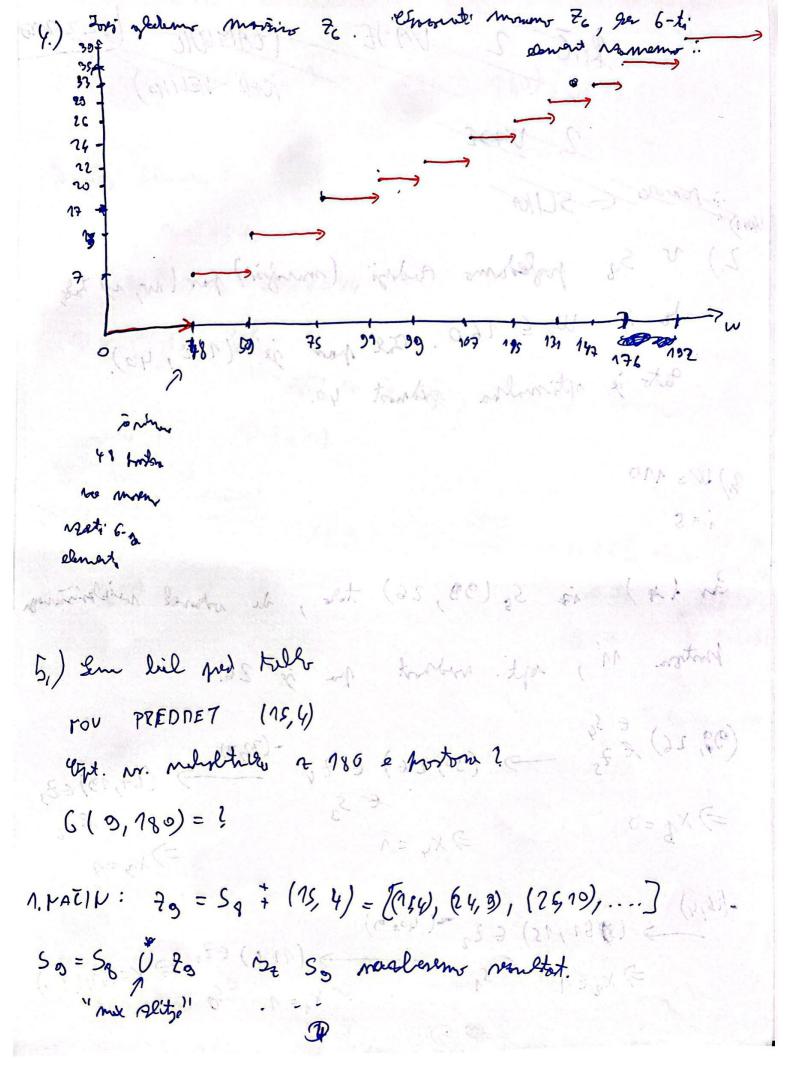
=> Tosova raliternost O(n.W)

VPRAŠANJA 17 (Prof - ju:

1.) 5-ti permet (45,6) ema

 $Z_{5} = S_{4} \ddagger (45,6)$ TA SE PRAVILEN MATIES TO (72,20) $Z_{5} = [(45,6), (56,12), (72,16),...]$

Brez načunanja Zs., de haldo ngotorili tak, da di preverli, re je Zs nanašinjon 2.) V So posledamo radizi (muriji) par (w, v) tos, do ig W & 160. The par je (1512, 40). Pato je optimalna vednost 40. 3.) W= 110 Ir (4) in So (99, 26) the, de where withinsierry apt. without no je 26. -> (3°, 26) E 7 (32,7) (67,13) 623 (99, 26) e su £ 53 1 = (081,0 £ 52 =) XB=0 ヨメy=ハ =>+3=1 -(16,4) (951,15) E 22 (40,0) $= \begin{cases} (951,15) \in \mathcal{I}_1 \\ \Rightarrow (11,6) \in \mathcal{I}_1 \\ \Rightarrow (11,1,1,0) \end{cases}$ $= \begin{cases} \chi_1 = 1 \end{cases} \quad \begin{cases} \chi_1 = 1 \end{cases} \quad \begin{cases} \chi_2 = 1 \end{cases} \quad \begin{cases} \chi_3 = 1 \end{cases} \quad \begin{cases} \chi_4 = 1 \end{cases} \quad \begin{cases} \chi_5 = 1 \end{cases} \quad \langle \chi_5 =$



["5" " " [2 3] (20) [2 3 21 ' h' 36! G(3,180) = mux (6(8, 180), 6(8, 180715)+4) 2. MACIN: 2 Sq islemy: 1. roup (Mro n) (Erg): . 6 (8, 180) =40 · 6 (8, 165) +4 = 40+4=44 true => G(9,180)=44 =) Xg=1 (1524 0) Eta -(44,0) (108,31) Et, (95) (90,26) ES RESILI V tour so when 3. FALOGI 2 = 2 mit = (2, 1/5=00)

0 = i all = (0, i) sta

cs ACAV 184 = [3,34,4,12,5,2] (non = [5,,..., Sm]) (6(8, 180) = Mar (6(8, 180)) (6(8, 180@ 3)24) Ali July S remiseure It not stevil in nes? · 6 (8, 180) =40 n. volit (DIM n ICHO): voota $(i,s) = \begin{cases} tme ; ie S ble agricum Rt robo <math>A(S_n,..,S_n) \end{cases}$ Nota (i, 0) = nota (i-1, p-a) OR nota (i-1, p) Marnen j-t. elant 20 H = 39(91,60) e Note (i, o) = true 5:=5 out (0), 0) = true

nto (i, o) = los " i > 0