1957 D > Yet Another Monster Killing Problem M > 9, 92 93 94 95 96 Pi kills till i≤Si  $H \rightarrow P_1 P_2$   $S_1 S_2$ max (a<sub>1</sub>, 9<sub>2</sub>, --- 9<sub>i</sub>)  $\leq P_i$ Approach - Suppose we have pk, sk such that pk ≥ Pj & Sk ≥ Sj → remore P; , S; > 40 hy 6 tooks Let mac (9,,92, ... 9;) < Pp Since PR >P; ut's obvious that m oc(a,, a2, .... a;) < p; < pk Now j' & S; where S; < Sk so j L Sk > itis obvious that we always pick (PR, SK) over (Pj, Sj) of greedy ? (1) Delete all the entries such that  $(P_j, S_j) < (P_k, S_k)$  where Pi = Pk & Si < Sk.

We will be deft with entries > such that if P2 > P4 (P1, S1) then Sy > S2 (P2,S2) y valid list 1,6 (P3, S3) & of heros 8,2 (Pn, Sn) 10, 1 2) Pick a how that can kill maximum monsters un one m + 6238 4 11 215 6 2 12. 110 1 5 4 6 2 3 8 4 11 2 1 5 1 1 1 do we have a guy whose p > max(6,2) = 6 & 2 3 8 4 11 2 1 5 s 22 P Ly uf yes, we are able to kill tillij, lincremen p ≥ m ax (6,2,3) = 6 & s ≥3 →no1 → delete till j-1 & じょう リナシャ Sum + = 1 ans=6 Similarly 215 du by p=5