Goal		P	44
TI.	V= (States	DP from
set of		→	
Sitabe	1/2 +		Mid Ferm
5.41 2 2.41 2	wired	state	2016
1 1 m	0 6 5	5.70	
0.0.5e		(000	
	tates S that minin	to who winin	to who to wining

from 21...; -14 Cotherwise build below If ies(i,v), s(i,v) \?is is a set of state, It : \$ S(i, v), the S(i, v) af Krove opt, substructure -> another sol with exactly v votes with the opt. S Ci-1, v-vi), add i to this set but less population the opt. (for states from i-16), then we replace it with exactly v-vi wher . It this set is mit using states st. it, value Min Pap (iv) In a solution, cither i e S(i,v) or i & S(i,v) Suppose we have opt. sol. for obtaining v states included in the rate for this sol as Scin) is the set of

MinPop(i,v) =) to if v=0

MinPop(i,v) =) to if v = 0

min (MinPop(i-1,v), Min Bp (i-1, v-v:)+P;) -sol = Min of these values base cases d) Time complexity = Space complexity = O(n. Vtot) e/ Vb+=0; Pb+=0; For j=1 to n. { Vhot t= Vj; Phot += Ps: } 11 base cases For i= 0 to n, sti, o] = 0; for v= 1 to Vtot, S[0,v]= Ptot +1; 1/(+0) 11 100P For ist ton For v = 1 to Vtot S [i,v] = Min (S[:-1, v], S[:-1, v-v.] +p.) 1 (check v > vi to add) //sol. { if S[n,v] < Min } Min = S[n,v] } Min = Plot+1 For v= V to Vhot