









Salesman Psublem: Traveling pas: a + c + ei + d + b + a lb - (1+3)+(3+6)+(1+2)+(4+3)+(3+2)/2 16=14 a>b a-e 6>0 6 → e lb = 16 e > d e > b C>b=4+9+1+6+7+5/2 16=14 d+b $c \rightarrow d = 4 + 9 + (1 + 4) + 7 + 5/2 - \frac{30}{2} = 15 - \frac{30}{2}$ b->a e >d = 14 e >b = 4+(3+9+3+7+9+2)/2 solution: a >c>e>d>b>a d>b= 4+10+3+10+5/2-32/2-16 Knapsack (dynmic problem approach) Problem desiding into overlap sub-problem (sub-problem agen't item weight value W=5 (capacity) V[ij] = {max[V[i-1,j],Vi+V[i-1,j-wi]] if j-wi>0 V[i-1,j] if j-wiko