124 6 21 23 Floyd algorithm # include = stdio. h? # include < limits. h? # define nan 10000 void display (int d [] [n]) { for (int i=0, i=n; i++) { for (int j=0; j=n; j++) 5 if (d[i](j] == nan) print ("1.6 s", INE"); else prints (" 1.6 d", d [: 3[;]; 3 frint (" 1"); 3 void floyd (int g[][m]) { int d(mJ[a],i,j,K; for (i=0; i=m; itt) { for (j=0; j=n; j++) { if (graph [i](j] =: -1) d[i][j] = Man; else & d[i][j]= g [i][j]; 43} prints (" Materia) (0): (n'); disflay (d); for (Kio; Ken; Ktt) { for (i=0; i=n; it+) {



for(j=0; jcn; j++) { if (d[i][j] >d[i][K] +d[K][j] d[i][j] = d[i](K] + d[K](j) printy (" In D(! d) Matinin : In", K+1) display (d); 3 int main () { fruits (" No of vertices :- "). scanf (" . | . d " / d m); int DEmJ(mJ; frints (" Enter matrie (-1 for direct fath): - ("); for (intiro; icms; itt) for (int j'=0; jen; j++) scanf ("1.d", & D[i][j]); floyd (D);



07 Warshall algorithm # include < stdio 47 const int Man = 100; void Warshall (int graft [Man] [Man], int n) int i, j, k; for (1 = 0; K (ss; K++) f for (i=0; i<n; i++) { for (j:0; je sij + +) { rif (graph (i][j] 11 (graph [i][K] ee grafh [KJ[j]) graph [i][j:7:1; 3333 int main () E int i, j, si; int g [ran] [Man]; frients (" No of vertices :- "). scanf (" . /. d", & sn); prints (" Enter adjacency matrice"); for (:=0; i=n; i+) for (j=0; j=n; j++) scarf (" .f. d", &g[i][j]). Warshall (g, m); frients ("Transitive Closure : "); for (i > 0; i= m; i++) { Jon (j=0; j=n; j++) {



print ("/d \ " + g (i 3 (j 3) .)

print (" of \ ");



27 Knapsack algorithm # include < stdio. h? int man (int a, int b) { Return (a > 6) ? a : 6; int Knafsack (int W, int wt CJ, int val C3, int m) & int i. w; KEn+13CW+17; for (; = 0; i == n; i++) { for (w=0; w <= W; w++) { if (i = = 0 | 1 | w = = 0) K E i 7 C w 7 = 0; else if (wt[i-1] <= w) Kliftwij= man (KEi-13Ewj, (valli-17 + K[:-1][w-wt[:-17])) $\frac{KCiJLwJ = KCi-IJLwJ}{2}$ return KCMJEWJ; int main () { int n, man, frients (" led", & m); int val [m], wt Cm?;

