6) Write a program for distance ventor algorithm to find Suitable path for transmission #include < stdip. h> #include < stalibin> int Bellman Food (int G [20] [20], int vy inti. int edge[20][20]) int i, u, v, k, distance[20], parent [20], s, flag=1; fox (1=0; i < v; i++) distance [i] = 1000, Parent [i] --1; Printy (Enter Source ?); scanf ((10, d), 86); distance [s-i] = 0; fox (i=0;i< y-1;i++) for (K=0; K < E; K++) u-edge[K][O], V = edge[K][i]; if (distance [u] + G[u][v] = distance[v]) distance[v] = distance[u] + G[u][v], paxent[v]=u; for (K=0; K < E; K++) u=edge [k]67, v=edge [k][1]; if (distance [u] + G[u][v] < distance[v]. \$ laq = 0;

if (flag) 508 (1=0; i < ν; i++) , , , , , printf (" Vortex 1/0 d -> cost = % d parent= %) In it is distance [i], pasent[i]+): return flags int main () intr, edge[20][2], 6,[20][20]; i,j, K=0; Print f (Enter no of vertices) Scanf (ee / d 99 2 V); Points (er Enten graph in matrix form: In"); for (i=0: i < V; i++) fox (1=0 ° j < V ; j+t) { Scanf (etox j", ox G[i][j]); if (o [i][i] != 0)", edge [K][0] = 1 , edge [K+1][1] = j; it (Bellman-Ford (G, V, K, edge)) point of least to weight cycle in"); cise Point of la Negative weight cycle exists in retorn 0; Achiever



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