# include coldio.h> # andudi 2 conto. hy (n) a[10][10], n; roid floyds (); ent min (ent, unt); Yord main () ent i, ji Printy ("enter the no. of vertices"); scary ("2d", gn); printy (" In enter the cost matrix"); for (i=1 sicn sitt) tro (j=1; icen; i++) sang ("2d", fali], ali); Hogdic); Yord floydics; ent i, j. K; tor( k=1: K <n; k++) force-1; ic-n; itt for (j=1; j =n; i++)

```
of: ][]]: min (of:)[]), af:][r] , orrigh);
                               modern endow);
beinty ( "In on pair shower path
   for cl=1; 150;
   bound ( , 2914, 0(:)(2));
  painty ("&dlt", ol:)[]);
  ((C(3(30, "+16x") proved
  painty ("InIn");
 int mun (ent or, unty)
   9,(724)
     setuen x;
     sutuan y;
```

Knapsock Algorithm using 24/06/2021 dynamic Strogramming # encluded stdio.h) # enclude < conto, h > Void Ichapsack (); int max (int, int); int i, j, n, m, p[w], w[w], v[w][ro], Mord main () Printf ("In enter the no of etems: It"); scanf (" &d", fn); Painty ("In enter the weight of each item: (n"); for (=1 0 %= n 9 (++) Scary ( & to", fw[i]); printy ("In enter the projet of each etern: \n"); Scany ("2d", & p[:]); painty (stenter knapsæck capacity: (t"); scan ( 1/20, 0 m); knapsoucc); Yord knapsack tnt x [10];

```
for (1=0; 12=n; 1++)
for (j=03 jc=n jj++)
 for ( == 0 | j == 0)
  VETOLIO:
   EIN Y (j-W[i](0)
     かいひじり= いいつりじいい
    がいりり)= mox(v(:-1)[i], v(:-1)[j-いい);.
peinty (" In the output is: \n");
for ("=0; je=n; 1++)
 for (j=0 ; j<=n ; j++)
 painty ("2dlt", V[][]);
printy ("Inln");
printy ("In the optimal socution is to", v [n][m]);
        rein solution vector in: (n");
 for (1=n i P>=1 ; i--)
    ( V [i][m] ! = V [i-1][m])
```

X (2)+11 mam whill x1:J= 6: for ( ; = 1 } 1 ( = n } 1 + + ) Painty ("2d | 1", x[]); int max (inx, int y) g(x)yb Return x; returny;

\*

```
watshal Algorithm
                                       maladianal
Attendede estalio. hs
(B)] [61] (61] (61] (61] (61] (61]
 void washar (cont n, into Ostro), int ploof 10)
 ent;, j.k;
for ( i=0 ; ich 19+4)
      fr (3=0 ; jen; j++)
      PED Win order
     for (K=0; KCD; K++)
     for ( i = 0 ; ich ; i++)
     for ( =0 ; jen; j++)
     (()==(2)[x]q 4 1==(1](i)q) 44 (0==(7](i)q))
         br: 3 (3) = 1;
  Void main ()
    ent i, j;
    plints ("enter the number of vertices |n');
    sard ("xd", sn);
   peinty (" enter adjacency material");
   tor (1=0 ; ren ; t++) {
     brig=03 (cnijf++) {
     sterny ('/ d", so (i)[j]);
```

```
varghall (n.a.p)
printy ("+ rany: tre dooscurd"),
  for (1=0; 12n; 1+t)
   $ (j=0 ; jen; :++)
  ) ( ( ) dle , b() ();
```