

```
if (flag)
     for (9=0;12V;14+)
           printl("vertex old -) cost = old powent = old/14
                   iti, destance [i] Iparent[i] + i);
   return flag:
Int main ()
    int v, edge [20][2], en[20][20], i,j, & 20;
     printf ("BELLMIAN FORD (NW):
      prentl ("Enter no. of vertices:");
      scant (" rid", &V);
      printt ("Enter graph in matrix form: In");
      for (520; 1 2 1; 1+ +)
           for (j=0; jeV; j++)
                scant ("190d", & by EFTCJ D)
             14 ( Inti ][; ] (=0)
                   edge[k][o]=i, edge[k+t][i]=j;
         it ( Bellman Ford (en, 4, k, edge))
              print ("In No negative weight eyele ho);
         else printf ("In Negative weight cycle earstain?
         return o;
       BELLMAN FORD
        Enter no of virtles : 4
         Enter graph in matrix form:
            5 4 999
          5063
          999 3 1 6
           2 0 1 4
    Enter cource :1 - 100 - 100
      Vertex 1 -> cost = 0 parent = 0
      Vertex 2 - cost =5 parent = 1
      Nortex 3 - cost = 4 parent = 1
        Vertex 4 -> cost = 8
                              parent = 2
```

#Include (stdio.h) # Include L conso. h ? # define INFINITY gold; # define MAD 10 libertine 160 vost dejestra (ent en [MAX][MAX]int n, mt startnoda) ant main co ( (5) 1 hotalog ) 11 in , it is [ KAN] [ WAN IN to the comment prentl ("Enter no. of wrtlees: "): searl ("Yod", & n); printf ("In Enter the adjacency) 2000 for (1=0 : 1 z n; i++) all following for ( 5=0; j Ln; s++) scant (" y. 1", U boll () [ []); printf (" In Enter offic starting node; 1); scant ( " 1.2", dw); dej botra (kuniu): 1 10-1 101 returno ( semente 2 ) 17 64, 1 let 1. > show for so wright min) from Lord dijketra (Int ent MAD) [MAX], ent n, int stortholo) 2 int west [MAN] MAN], distance [MAN], pred [MAN]; ent veseted [MAX], count, mented ostance inexthode, 1213 for (920; 94 n; 1+4) for (j=0;j<n;j++) et (entillis=0) LOST ETJESJ = INPINITY; else いらせてりてらてころしょうしょう for (1=09 1 < n 5 9++) X distance [1] = cost[starthode][1]; pred [ ] = starthode; visited [ 0] = 0; distance (startnode ) = 0 jour 10 Vis9ted [startnode]=1;

La Estad do Dantord

count = 1:

```
while (wint cn-1).
              mandestance = FURINITY
               Por (=0; 12n; 1++)
                  if (destance[i] emindistance ble il vested[i
                          mandistance = destance [i]; next node
                            DE UTTAGRAT TOLLER
               visited [next node ] = 1";
           10 to for (120; 12 n; 1++) ...) war 3 1 1 hier
                     it (jussited [17]) 1 () along top
                   : Compredistance + cost [nex trade][1]
              " assisting for your rolly distance [1])
      a sit refus of ) though Xan there ) from:
                        destance[i]2mindestance continental
                   (178 ma pro pred Till chestrodes
         Eggler Just Co per of from
      : ( show priferatioons of the feet of " ) first
                         : (us, " by " ) fame
             for (120: 12n 31+1+)) + 1 + 1 + 1
                  If (it = startnode) x
                      printf ("in Distance of node pd = 1.d 11, darbuil
         print (11 \n Path = 90 du 17) ; 19 = 1.33
Liam plange taken sometans = predtilliam from this
Chapman and and the title in the branth Com dog day of 3 2113
                        b while (j] = startnode);
                      10 ( 1 = 1 1 6 2 1 1 2 5 1
                 ( · Figrije ) · ....
OUTRUT TOUR DESTROY TURTUO
      Enter no. of vertices: 4
      Enter the adjacency matrix:
                                 9212
         0 5 4 999
                       > ( + 19 ( n > ) ( o = i ) set
        9976 32 1/19 5/ 2/ 1/ 1/ 1/ 1/ 2010
                    Starfie .
        Boter the starting node: ,
        Pistance of nodeo 25 1 parents
         Distance of hoder 2 production
            Path 226361
           Distance of rodes=3
```