6/7/21 1BM19 03090 ADA LAB TEST-2 46- (56-48 Mohammed Strakins Rahil.S. (Q) Implement All pair shortest paths problem using Floyds Algorithm. code: (92, 24) poss # include (stelio. h) int mon (int ; int); (+++ + 3 + : 1 + 2) in void floyds (int p[10][10], int n) int i, i, k; for (k=1; k (=n; k++) for (i=1) i (=n;i++) (111.9=31:1=1) 3 for (j=1;j(=n;j++) if (i = 1) elie e p[i][j] = min (p[i][j], p[i][k] + p[k][j]]); elie min (int a, int b) to have be with a site of the (PF(18) 1:12) if (a (b) return (a); (all a ser a ser a else return (6); (og) shed \$ 916m

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void main()
  int p(10) (10), w, n, e u, v, i i);
   print ("In Enter the number of vertices: ");
   scory (" "d", &n);
    prints ("In Enter the number of edges:");
    scanf ("1.d", se);
     for ( =1; i L=n; i++)
         for (j = 1 ; j L = n; j++ )
               P[i][j] = 999;
                                          attended by
     for (i=1; iL=e,i++)
         print ("In Ester the end vertices of edge 1.d with its
                   weight: In ", i);
         scarf (" 1.2 1.2 1.2", su, sv, sw);
         P[u][v] = w;
        printf ("In Matrice of input data: "In");
        for (i=1;i(=n;i++)
             for (j=1: j (= n; j++)
                 printf (" 1d It", PCiJGiJ);
             printf ("In");
          flyds (p, n);
          printf (" In Transitive closure: In");
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for ( i=1; i L=n; i++)
     for (j =1; j (=n; j ++)
        printf (" / dlt", pcissis);
     printf ("In");
print ("In The shortest paths are: In");
for (i=1; i = n; i++)
     for G =1 ; j L= n; j++)
             proutf (" In (" 1.d , 1.d > = 1.d", i.j, p (i) [j]).
     9 4(i)=i)
 print ("In Enter vertex 1: ");
  int a, b;
  scarf (" 1d", Sa);
   printt ("In Enter vertex 2:");
   scarf (" 1.d", 86);
    printf ("In Shortest dies path between given source
               and destination: ");
    printf("$<1.d."1.d>=1.d", a, b, P[a](b));
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