C.R. PUNEETH Ristance Vector Algorithm 1BM 18 C5087 19/11/20 S cronters At usery souter prior souting dable entains chader files # define MAX 10 class souter char adj-new [MAX], adj-add [MAX]; unt itable new [MAX], table-old [MAX]; Jublic : router () { for (inti = 0; ic MAX; i++) table_old[i]=table_new[i]=99; word copy () don (i=0; i < n; i++) adj-old [i] = adj-new [i]; table-old [i] = table_nuo Ci]; S-R-Puneed

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S-R-PUNEEPH
unt equal() {
                                                    18M18CS087
 for (unt i = 0; icn; i++)
 if (table old[i]!= table_new[i]
   adj-nu [i] = adj-dd[i])
   vreturn o;
 3 creturn 1;
word injut (int j) {
 cont < c "Enter if the corresponding router is adjacent
 to gentia' (c(char)('A'+i) <<" else enter 99 < ( endl;
  don (i=0; i(n; i++)
   if (i!=4)
   cont << (char) (+1) << "";
   cout ((" In Enter matrix";
   dor(i=o; icn; i++)
    if (1 == 4)
       table nuo [i] = 0;
      cin > > table_nuo [i];
      andj- new [i] = (chan) ('A'+i);
   cont cc endl;
  coord display ()
   cont (« 'n Denstination monter: ";
  for (i=0; icn; i++) cout < c (cha) ('+'+i) (c");
cout cc" in outgoing hire;
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S'R PUNEETH
for (i=0; ien; i++) cout « adj-mo[i]ce"";
                                                 1BM18 CS 087
 contec" in Hop count: ";
da (i=0; i<n; i++)
  contectable_new [i]cc";
 word build (int j)
 for (i=0; i(n; 1++)
 fn (k=0; (i!=j) {4 (ken) jk++)
                                         count of the
  if (table_old[i]!=99)
  if (table_new [i]+ & [i]. table_new [K] < table_new [K]){
   table_no[k]: table-no[i]+ o[i]. table-no[k];
  adj-nu [k]= (chan)('A'+i);
                              S(14) (Jaks) 17 that
  3 a [10];
 world build table () {
  i=0; j=0;
 archile (i! = n){
 for (i=j; i < n; i++) {
     or [i]. copy();
     or [i] build [i]; ]
  of (i= 0; icn; i++)
   if (!a[i]. equal()) {
      break; 5
word main () 9
 cout ce" Entre no. of soutres (e" << MAX << ");
 for (i=0; i<n; i++) x[i]. in input[i];
 build table ();
 for (i=0; i<n; i+1) { cout << "Router etable entries for
 router" << (chaq>('A'+t) << ":-";
 rtiJ. display(); cont << endl << endl; } getch c); }
```