BW8CL077
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Ch lab
#include stdio.h>
#include <conio.h< th=""></conio.h<>
#define Max 10
intn;
class router {
char adj_new[Max], adj_old[Max];
char adj_new[Max], adj_old[Max]; int table_new[Max], table_old[Max];
public:
router (D
forCinti=0;i }
void copy (D
for Cinti=0; i }  void copy( )  for Cinti=0; i adj_old[i] = adj_new[i];  table_old[i]=table_new[i];
table_old[i]=table_new[i];
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integual &
forCirt
i=0;iif(table_old[i]!=table_new[i]/ladj_new[i]!=a
dj-old[i])return 0;
for Cint i=0;iif(table_old[i]!=table_new[i] ladj_new[i]!=a dj_old[i])return 0; return 1;
void input(intj) {
V

cout "Enter / if the corresponding router is adjacent to router" «(Char)('a'+j) << " else enter 99: " for Cint i=0; iif(i!=j) cout < (char)('a'+i) << ""; cout < " nEnter matrix: "; for (i=0; iif (i=ij) table\_new[i]=0; else cin-table\_new[i]; adj\_new[i]=(char)('a'+i); void display(){
cout<"\nDestination Router: "; for Lint i=0; i cout < "\nOutgoing Line."; for Li=0; i cout < "\nHop Count."; void build(intj) ? for Cint i=0; if or Cint k=0; (i!=j) xx (kig(table\_old[i]!=99) if Ctable new[i]+r[i].table new[k]) table\_new[k]=table\_new[i]+r[i].table\_new[k]; adj\_new[k]=(char)('a'+i);

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] r[10];
void build table &
inti=0, i=0;
inti=0, j=0; while(i!=n) {
forCi=j;irLiJ.copy();
forli=j;i r[i].copy(); r[i].build(i);
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forCi=0;iif(!r[i].equal()){
j-ij
j=i; break,
3
3
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void main () {
clrscr();
cout "Enter the number the routers (-"->n;
for Cint i=0; i build table(); for Ci=0; i cout < "Router Table entries for router" << Char C'a'+i) << ":-";
for Ci=0; i cout - "Router Table entries for
router "<< (char)('a'+i) << ":-";
r[i].display();
coute 3
g .