CN

```
# include LConio.h>
# include Liostreum. h >
# desine MAX 10
intn;
class groutes d
 char adj-new[MAX], adj-old [MAX];
 int table-new [MAX], talle-old[MAX];
  Pullic:
   900 tes () d
    for Cinti=0; iCMAX; i++)
        table-oldli]= table-new[i]=99;
    3
   void copy () &
    for (inti=0;izn;i+){
       adi-old[i]= &dj-new[i];
       table - old [i] = table - nev [i];
   int equal()d
    3
    gor (intizo; izn', i++)
    is (table-old[:]!=table=new[:] IL ado-new[i]!=ads-old[i])
        L notumo; &
       return 1,
     so else
    3.
```

```
void input (into ) d.
     Cout 22" Enter 1 if the corresponding router is adjacent
      +0 souter "24 (char) ('A'+5°) 22" else enter 99: "22 ends 22"
    gos (inti=0;i2n;i++)
     if (i!=si) cout 14 (chos) ('A'+1')26""
           cout 44" | n Enter matrix: ";
      for (i=0;i2n;i++)2
      if (i== 5)
            table-new[i]=0;
      else
            cin >> table - new[i];
           adj-new[i]=char('A'+i);
         Cout L'end ?;
    Void displayed
         COUL CZ "In Destination Router: ";
      gor (ind i=0; i=n; i+1) cout = (char) ('A'+i) = "
          coutze" inoudgoing Line:
      for (i=0', iz n; i++) cout zz adj-nev[i]zz"";
          cout LL'IN HOP Lourd:
       dor(i=0',ian; i++) cont ce table_nw[i] 22"")
   void build (ints)d.
      for (int i = 0; i = n; i++)
       for (int K=0; (i!=5) 44 (K Ln); K++)
       if (table-new [:]+ or [i]. table_new[x]2 table_new[x])d
       ig ( tuble - old [i]: =99)
               table-new[k] = table-new [i] + 9[i]. table-new[k];
               ads'-new(K) = (chas)('A'+i);
      3 かしのう
```

```
void build-table (7 d.
   inti= 0, j=0)
   while (i!= n) 4
     809 (i=j) i'an; i++)d
          sol: 7. copy();
          on [i]. build (i);
    803 (i=0; i2n; i++)
      if (! A[i]. equal())d
           s= i !
       baeal;
    24
  void main od
     cout 22"Enter number fronters (2"22MAXZZ"): "; cin >>n;
    clascan;
     for (int i=0', i= n'; i++) 9 [i]. input(i);
        build-table ();
        Cout 22" Router Jable entries for router "24 (char) ('A' +i) 24":-";
     gos (i=0; i=n)i++)1
        In [i]. display ();
        Cout exende ca mal;
      getch();
```

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