```
DFS
Hindude < stdio. h)
# include & Adlib. h >
int a [20] [20], reach[20], n, -/rav[20], C=0;
void des (int v)
 int i ;
-trov [c++] = v ;
reach [v] = 1
  for ( i=1; 1 = n; i++)
     if (a[v][i] ble Irach [i])
void main (),
  printf ( 'n Enter number of vertices: "
  scorf ("1.d", &n);
 for ('i = 1; i <=n; i++)
   reach [i] = 0;
  for (j=1; j = n; j++)
  a [i][j] = 0;
print f ( d \n Enter the adjectncy matrix: \n 4

for (i=1; 12=n; i++

for (j=B; i2=n; j=1)
  scanf ("/d", locistis);
  start = clock();
  end = clocke);
```

```
printf('\n");
         i=0 ; i Z= n ; i++
if ( count == n)

print f (1 \n Graph is connected to ").

else
printf (")n Grouph is not connected in for (i=0; (cn; (++))

printf ("/d/t", town (i]);
                     In time required is 1.8 f \n" ((doable)

(end-stat) /clocks PER_SEC));
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| A3 | TOH: |
| | #include <stdio.h></stdio.h> |
| | tinclude < time. h) voi à fower of flonoi lint n, char from rod, char to-rod, |
| | voi à four of tanoi (int n, char trons 100) |
| <u> </u> | Char_ach_rac_ |
| | if (n==1) |
| | printf ("Movedise from 1.C to 1.C \n", from_rodstaxed). |
| | return |
| | fower of Hanni (n-1, from rod aux-rod, to rod); printf ("Move dist from 10 to 1. C\n", from rod, to rod); |
| | printf ("Move dist from 10 to 1 C/m" tross rod, to rod) |
| | fouveral Hanoi (n-1 aun-rod, to rod, from rod); |
| | int main (int argo, const char* arg v[]){ |
| | int main (mi argo, com |
| - 1 | clock t start, end |
| | for (ii) ? |
| | print ("Enter the number of pegs in 704;); scanf ('1.d", lin); |
| | start = clock () 1 |
| | stort = clock (); fowerOlHanoi (n, ca', c', b'); |
| | end = clocb(); end = clocb(); printf ("In time raquired's 1.8f In" ((double) (end-stort)) ret: ret: return 0; |
| | print ("In time raquired's 1.8f m, Claude to PER SEC)):1 |
| | nhưn 0: |
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