

Week 08

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DFS problem 01:

```
#include<stdio.h>

void DFS(int);

int G[15][15],visited[15],n;


void main(){
    inti,j;

    printf("Enter Number of Sub-office:");

    scanf("%d",&n);

    printf("\nEnter Their Connection using Matrix:\n");


    for(i=0; i<n; i++){
        for(j=0; j<n; j++){
            scanf("%d",&G[i][j]);
        }
    }

    for(i=0; i<n; i++){
        visited[i]=0;
    }

    DFS(0);
}

void DFS(inti){
    int j;

    printf("\n%d",i);
```

```

        visited[i]=1;
for(j=0; j<n; j++){
    if(!visited[j]&&G[i][j]==1){
        DFS(j);
    }
}
}
}

```

DFS problem 02:

```

#include<stdio.h>

void DFS(int);

int G[15][15],visited[15],n;

void main(){
    inti,j;

    printf("Enter number of Cloths:");
    scanf("%d",&n);
    printf("\nTheir Connection:\n");

    for(i=0; i<n; i++){
        for(j=0; j<n; j++){
            scanf("%d",&G[i][j]);
        }
    }

    for(i=0; i<n; i++){
        visited[i]=0;
    }

    DFS(0);
}

void DFS(inti){

```

```
int j;  
printf("\n%d",i);  
    visited[i]=1;  
for(j=0; j<n; j++){  
    if(!visited[j]&&G[i][j]==1){  
        DFS(j);  
    }  
}  
}
```