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//adjacency matrix DFS
#include<stdio.h>
void DFS(int);
int mat[10][10], visited[10], n;
void main()
int i,j,v;
char reply;
printf("How many vertices:");
scanf("%d",&n);
for (i = 0; i < n; i++)
for (j = 0; j < n; j++)
printf("\nls there edge between %d & %d? (Y/N/y/n):",i,j);
scanf(" %c", &reply);
if ( reply == 'y' || reply == 'Y' )
mat[i][j] = 1;
else
mat[i][j] = 0;
}
}
for(i=0;i<n;i++)
visited[i]=0;
printf("\nEnter the start vertex: ");
scanf("%d",&v);
printf("\nDFS Traversal is:");
DFS(v);
printf("\n\n");
void DFS(int i)
int j;
printf("%d ",i);
visited[i]=1;
for(j=0;j< n;j++)
if(!visited[j] && mat[i][j]==1)
```

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DFS(j);
}
```