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Lab Assignment- Adjacent List
//Printing the directed and undirected adjacent graph matrix
#include <stdio.h>
#define V 5
void init(int arr[][V]) {
int i, j;
for (i = 0; i < V; i++)
for (j = 0; j < V; j++)
arr[i][j] = 0;
}
void addEdge(int arr[][V], int i, int j) {
arr[i][j] = 1;
arr[j][i] = 0; //for undirected put this equal to 1
void printAdjMatrix(int arr[][V]) {
int i, j;
for (i = 0; i < V; i++) {
for (j = 0; j < V; j++) {
printf("%d ", arr[i][j]);
printf("\n");
}
}
int main() {
int adjMatrix[V][V];
init(adjMatrix);
addEdge(adjMatrix, 0, 1);
addEdge(adjMatrix, 0, 2);
addEdge(adjMatrix, 1, 3);
addEdge(adjMatrix, 2, 1);
addEdge(adjMatrix, 2, 5);
addEdge(adjMatrix, 3, 3);
addEdge(adjMatrix, 4, 2);
addEdge(adjMatrix, 4, 3);
printAdjMatrix(adjMatrix);
return 0;
}
```