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WARSHALLS ALGORITHM

#include <iostream>

#include <conio.h>

using namespace std;

void floyds(int b[][7])

{

int i, j, k;

for (k = 0; k < 4; k++)

{

for (i = 0; i < 4; i++)

{

for (j = 0; j < 4; j++)

{

if ((b[i][k] \* b[k][j] != 0) && (i != j))

{

if ((b[i][k] + b[k][j] < b[i][j]) || (b[i][j] == 0))

{

b[i][j] = b[i][k] + b[k][j];

}

}

}

}

}

for (i = 0; i < 4; i++)

{

cout<<"\nMinimum Cost With Respect to Node:"<<i<<endl;

for (j = 0; j < 4; j++)

{

cout<<b[i][j]<<"\t";

}

}

}

int main()

{

int b[7][7];

cout<<"Enter values of adjacency matrix\n\n";

for (int i = 0; i < 4; i++)

{

cout<<"enter values for "<<(i+1)<<" row"<<endl;

for (int j = 0; j < 4; j++)

{

cin>>b[i][j];

}

}

floyds(b);

getch();

}

OUTPUT

