5 Diagonal Matrix.

5b. Tri-diagonal Matrix.

#include<iostream>

using namespace std;

int main(){

int n;

cout<<"Enter the size of array"<<endl;

cin>>n;

int size=3\*n-2;

int a[size];

cout<<"Enter the elements"<<endl;

for(int i=0;i<size;i++){

cin>>a[i];

}

int k=0;

cout<<"Tridiagonal Matrix is as follows:"<<endl;

for(int i=0;i<n;i++){

for(int j=0;j<n;j++) {

if(i==j){

cout<<a[k]<<" ";

k++;

}

else if(i-j==-1){

cout<<a[k]<<" ";

k++;

}

else if(i-j==1){

cout<<a[k]<<" ";

k++;

}

else{

cout<<"0"<<" ";

}

}

cout<<endl;

}

}

OUTPUT :

