CODE:-

//solution prepared by Sekhar Karedla Cse -02 B.E(2/4) 160114733091

#include<iostream>

using namespace std;

int main()

{

int r[3],c[3],v[3],p[3][3];int i;

for(i=0;i<3;i++)

{

cout<<"\nenter the sum of row "<<i+1<<endl;

cin>>r[i];

}

for(i=0;i<3;i++)

{

cout<<"\nenter the sum of coloum "<<i+1<<endl;

cin>>c[i];

}

for(i=0;i<3;i++)

{

cout<<"\nenter the value "<<i+1<<endl;

cin>>v[i];

}

p[0][2]=v[0];

p[1][1]=v[1];

p[1][2]=v[2];

p[1][0]=r[1]-v[1]-v[2];

p[2][2]=c[2]-v[0]-v[2];

// cout<<p[1][0]<<' '<<p[2][2];

int a,b,c1,d;

for(d=0;d<r[2];d++)

{

for(c1=0;c1<r[2];c1++)

{

for(b=0;b<c[1];b++)

{

for(a=0;a<c[1];a++)

{

if((a+b+v[0])==r[0])

{

if((a+p[1][0]+c1)==c[0])

{

if((b+d+v[1])==c[1])

{

if(((c1+p[2][2]+d)==r[2]))

{

p[0][0]=a;

p[0][1]=b;

p[2][0]=c1;

p[2][1]=d;

break;

}

}

}

}

}

}

}

}

int j;

cout<<"\nthe complete matrix is : \n\n";

for(i=0;i<3;i++)

{

cout<<endl;

for(j=0;j<3;j++)

{

cout<<" "<<p[i][j];

}

}

return 1;

}

OUTPUT :-

