**import** java.util.\*;**class** Solution{**int**[][]b=**new** **int**[9][9];**public** **static** **void** main(String[]a){**new** Solution().m();}**void** m(){**int** i,j;Scanner n=**new** Scanner(System.*in*);**for**(i=0;i<9;++i)**for**(j=0;j<9;++j)b[i][j]=n.nextInt();g();**for**(i=0;i<9;++i){**for**(j=0;j<8;++j)System.*out*.print(b[i][j]+" ");System.*out*.println(b[i][8]);}}**int** g(){**int**[]w=**new** **int**[10];**int** i,j,r=0,c=0;o:**for**(;r<9;++r)**for**(c=0;c<9;++c)**if**(b[r][c]==0)**break** o;**if**(r==9)**return** 1;**for**(i=0;i<9;++i)w[b[i][c]]=1;**for**(i=0;i<9;++i)w[b[r][i]]=1;**for**(i=0;i<3;++i)**for**(j=0;j<3;++j)w[b[r/3\*3+i][c/3\*3+j]]=1;**for**(i=1;i<10;++i)**if**(w[i]==0){b[r][c]=i;**if**(g()==1)**return** 1;b[r][c]=0;}**return** 0;}}

#include <iostream>

#define x for(i=0;i<9;++i)

using namespace std;

int b[9][9];

int g() {

int i,j,r=0,c=0,w[10];

for(i=0;i<10;++i)w[i]=0;

for(;r<9;++r)for(c=0;c<9;++c)if(!b[r][c])goto o;

o:if(r>8)return 1;

x w[b[i][c]]=1;

x w[b[r][i]]=1;

for(i=0;i<3;++i)for(j=0;j<3;++j)w[b[r/3\*3+i][c/3\*3+j]]=1;

x if(w[i+1]==0){b[r][c]=i+1;if(g())return 1;b[r][c]=0;}

return 0;}

void main(){

int i,j;

x for(j=0;j<9;++j)cin>>b[i][j];g();

x{for(j=0;j<8;++j)cout<<b[i][j]<<' ';cout<<b[i][8]<<endl;}

}

#include <iostream>

#define x for(i=0;i<9;++i)

#define y(i,j) for(i=0;i<=j;++i)

using namespace std;int b[9][9];

int g(){int i,j,r,c,w[10];

y(i,9)w[i]=0;

y(r,8)y(c,8)if(!b[r][c])goto o;

o:if(r>8)return 1;

x w[b[i][c]]=1;

x w[b[r][i]]=1;

y(i,2)y(j,2)w[b[r/3\*3+i][c/3\*3+j]]=1;

x if(w[i+1]==0){b[r][c]=i+1;if(g())return 1;b[r][c]=0;}

return 0;}

void main(){

int i,j;

x y(j,8)cin>>b[i][j];g();

x{y(j,7)cout<<b[i][j]<<' ';cout<<b[i][8]<<endl;}cin >> b[0][0];}

#include <iostream>

#define y(i,j) for(i=0;i<=j;++i)

#define x y(i,8)

int b[9][9];int g(){int i,j,r,c,w[10];y(i,9)w[i]=0;y(r,8)y(c,8)if(!b[r][c])goto o;o:if(r>8)return 1;x w[b[i][c]]=1;x w[b[r][i]]=1;y(i,2)y(j,2)w[b[r/3\*3+i][c/3\*3+j]]=1;x if(!w[i+1]){b[r][c]=i+1;if(g())return 1;b[r][c]=0;}return 0;}void main(){int i,j;x y(j,8)std::cin>>b[i][j];g();x{y(j,7)std::cout<<b[i][j]<<' ';std::cout<<b[i][8]<<std::endl;}}

#include <iostream>

#define y(i,j) for(i=0;i<=j;++i)

#define x y(i,8)

int b[9][9];int g(){int i,j,r,c,w[10];y(i,9)w[i]=0;y(r,8)y(c,8)if(!b[r][c])goto o;o:if(r>8)return 1;x w[b[i][c]]=1;x w[b[r][i]]=1;y(i,2)y(j,2)w[b[r/3\*3+i][c/3\*3+j]]=1;x if(!w[i+1]){b[r][c]=i+1;if(g())return 1;b[r][c]=0;}return 0;}int main(){int i,j;x y(j,8)std::cin>>b[i][j];g();x{y(j,7)std::cout<<b[i][j]<<' ';std::cout<<b[i][8]<<std::endl;}return 0;}

#include <iostream>

#define y(i,j) for(i=0;i<=j;++i)

#define x y(i,8)

#define z int

z b[9][9];z g(){z i,j,r,c,w[10];y(i,9)w[i]=0;y(r,8)y(c,8)if(!b[r][c])goto o;o:if(r>8)return 1;x w[b[i][c]]=1;x w[b[r][i]]=1;y(i,2)y(j,2)w[b[r/3\*3+i][c/3\*3+j]]=1;x if(!w[i+1]){b[r][c]=i+1;if(g())return 1;b[r][c]=0;}return 0;}z main(){z i,j;x y(j,8)std::cin>>b[i][j];g();x{y(j,7)std::cout<<b[i][j]<<' ';std::cout<<b[i][8]<<std::endl;}return 0;}

#include <iostream>

#define y(i,j) for(i=0;i<=j;++i)

#define x y(i,8)

int b[9][9];int g(){int i,j,r,c,w[10];y(i,9)w[i]=0;y(r,8)y(c,8)if(!b[r][c])goto o;o:if(r>8)return 1;x w[b[i][c]]=1;x w[b[r][i]]=1;y(i,2)y(j,2)w[b[r/3\*3+i][c/3\*3+j]]=1;x if(!w[i+1]){b[r][c]=i+1;if(g())return 1;b[r][c]=0;}return 0;}int main(){int i,j;x y(j,8)std::cin>>b[i][j];g();x{y(j,7)std::cout<<b[i][j]<<' ';std::cout<<b[i][8]<<'\n';}return 0;}

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int b[9][9];int g(){int i,j,r,c,w[10];y(i,9)w[i]=0;y(r,8)y(c,8)if(!b[r][c])goto o;o:if(r>8)return 1;x{w[b[i][c]]=w[b[r][i]]=1;}y(i,2)y(j,2)w[b[r/3\*3+i][c/3\*3+j]]=1;x if(!w[i+1]){b[r][c]=i+1;if(g())return 1;b[r][c]=0;}return 0;}int main(){int i,j;x y(j,8)std::cin>>b[i][j];g();x{y(j,7)std::cout<<b[i][j]<<' ';std::cout<<b[i][8]<<'\n';}return 0;}

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int b[9][9];int g(){int i,j,r,c,w[10];y(i,9)w[i]=0;y(r,8)y(c,8)if(!b[r][c]){x{w[b[i][c]]=w[b[r][i]]=1;}y(i,2)y(j,2)w[b[r/3\*3+i][c/3\*3+j]]=1;x if(!w[i+1]){b[r][c]=i+1;if(g())return 1;b[r][c]=0;}return 0;}return 1;}int main(){int i,j;x y(j,8)std::cin>>b[i][j];g();x{y(j,7)std::cout<<b[i][j]<<' ';std::cout<<b[i][8]<<'\n';}return 0;}

#include <iostream>

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int b[9][9];int g(){int i,r,c,w[10];y(i,9)w[i]=0;y(r,8)y(c,8)if(!b[r][c]){x{w[b[i][c]]=w[b[r][i]]=w[b[r/3\*3+i/3][c/3\*3+i%3]]=1;}x if(!w[i+1]){b[r][c]=i+1;if(g())return 1;b[r][c]=0;}return 0;}return 1;}int main(){int i,j;x y(j,8)std::cin>>b[i][j];g();x{y(j,7)std::cout<<b[i][j]<<' ';std::cout<<b[i][8]<<'\n';}return 0;}

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#define y(i,j) for(i=0;i<=j;++i)

int b[9][9];int g(){int i,r,c,w[10];y(i,9)w[i]=0;y(r,8)y(c,8)if(!b[r][c]){y(i,8){w[b[i][c]]=w[b[r][i]]=w[b[r/3\*3+i/3][c/3\*3+i%3]]=1;}y(i,9)if(!w[i]){b[r][c]=i;if(g())return 1;b[r][c]=0;}return 0;}return 1;}int main(){int i,j;y(i,8)y(j,8)std::cin>>b[i][j];g();y(i,8){y(j,7)std::cout<<b[i][j]<<' ';std::cout<<b[i][8]<<'\n';}return 0;}

#include <iostream>

#define y(i,j) for(i=0;i<=j;++i)

int b[81];int g(){int i,j,w[10];y(i,9)w[i]=0;y(j,80)if(!b[j]){y(i,8){w[b[i\*9+j%9]]=w[b[j/9\*9+i]]=w[b[(j/9/3\*3+i/3)\*9+j%9/3\*3+i%3]]=1;}y(i,9)if(!w[i]){b[j]=i;if(g())return 1;b[j]=0;}return 0;}return 1;}int main(){int i,j;y(i,80)std::cin>>b[i];g();y(i,8){y(j,7)std::cout<<b[i\*9+j]<<' ';std::cout<<b[i\*9+8]<<'\n';}return 0;}

#include<iostream>

#define y(i,j)for(i=0;i<=j;++i)

int b[81];int g(){int i,j,w[10];y(i,9)w[i]=0;y(j,80)if(!b[j]){y(i,8){w[b[i\*9+j%9]]=w[b[j/9\*9+i]]=w[b[(j/27\*3+i/3)\*9+j%9/3\*3+i%3]]=1;}y(i,9)if(!w[i]){b[j]=i;if(g())return 1;b[j]=0;}return 0;}return 1;}int main(){int i,j;y(i,80)std::cin>>b[i];g();y(i,8){y(j,7)std::cout<<b[i\*9+j]<<' ';std::cout<<b[i\*9+8]<<'\n';}return 0;}

#include<stdio.h>

#define y(i,j)for(i=0;i<=j;++i)

int b[81];int g(){int i,j,w[10];y(i,9)w[i]=0;y(j,80)if(!b[j]){y(i,8){w[b[i\*9+j%9]]=w[b[j/9\*9+i]]=w[b[(j/27\*3+i/3)\*9+j%9/3\*3+i%3]]=1;}y(i,9)if(!w[i]){b[j]=i;if(g())return 1;b[j]=0;}return 0;}return 1;}int main(){int i,j;y(i,80)scanf("%d",&b[i]);g();y(i,8){y(j,7)printf("%d ",b[i\*9+j]);printf("%d\n",b[i\*9+8]);}return 0;}

#include<stdio.h>

#define y(i,j)for(i=0;i<=j;++i)

int b[81];int g(){int i,j,w[10];y(i,9)w[i]=0;y(j,80)if(!b[j]){y(i,8){w[b[i\*9+j%9]]=w[b[j/9\*9+i]]=w[b[(j/27\*3+i/3)\*9+j%9/3\*3+i%3]]=1;}y(i,9)if(!w[i]){b[j]=i;if(g())return 1;b[j]=0;}return 0;}return 1;}int main(){int i;y(i,80)scanf("%d",&b[i]);g();y(i,80){printf("%d ",b[i]);printf(i%9==8?"\n":" ");}return 0;}

#include<stdio.h>

#define y(i,j)for(i=0;i<=j;++i)

int b[81];int g(){int i,j,w[10];y(i,9)w[i]=0;y(j,80)if(!b[j]){y(i,8){w[b[i\*9+j%9]]=w[b[j/9\*9+i]]=w[b[(j/27\*3+i/3)\*9+j%9/3\*3+i%3]]=1;}y(i,9)if(!w[i]){b[j]=i;if(g())return 1;b[j]=0;}return 0;}return 1;}int main(){int i;y(i,80)scanf("%d",&b[i]);g();y(i,80){printf("%d%s",b[i],i%9==8?"\n":" ");}return 0;}

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#include<iostream>

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#include<iostream>

#define y(i,j)for(i=0;i<=j;++i)

int b[81],k;void g(){int i,j,w=0;y(j,80)if(!b[j]){y(i,8){w|=1<<b[i\*9+j%9]|1<<b[j/9\*9+i]|1<<b[j/27\*27+j%9/3\*3+i+i/3\*6];}y(i,9)if(~w>>i&1){b[j]=i;g();if(!k)return;b[j]=0;}return;}k=0;}int main(){y(k,80)std::cin>>b[k];g();y(k,80)std::cout<<b[k]<<(k%9-8?" ":"\n");return 0;}

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#include<iostream>

#define y(i)for(i=0;i<=80;++i)

int b[81],k;void g(){int i,j,w=0;y(j)if(!b[j]){y(i)w|=1<<b[i/10\*9+j%9]|1<<b[j/9\*9+i/10]|1<<b[j/27\*27+j%9/3\*3+i/10+i/30\*6];y(i)if(~w>>i&i<=9){b[j]=i;g();if(!k)return;b[j]=0;}return;}k=0;}int main(){y(k)std::cin>>b[k];g();y(k)std::cout<<b[k]<<(k%9-8?" ":"\n");return 0;}

#include<stdio.h>

#define y(i)for(i=0;i<=80;++i)

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#define y(i)for(i=0;i<=80;++i)

int b[81],k;void g(){int i,j,w=0;y(j)if(!b[j]){y(i)w|=1<<b[i/9\*9+j%9]|1<<b[j/9\*9+i/10]|1<<b[j/27\*27+j%9/3\*3+i/10+i/30\*6];y(i)if(~w>>i&i<=9){b[j]=i;g();if(!k)return;b[j]=0;}return;}k=0;}int main(){y(k)scanf("%d",b+k);g();y(k)printf("%d%c",b[k],k%9-8?32:10);return 0;}

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#include<stdio.h>

#define y(i)for(i=0;i<81;++i)

int b[81],k;void g(){int i,j,w=0;y(j)if(!b[j]){y(i)w|=1<<b[i/9\*9+j%9]|1<<b[j/9\*9+i/9]|1<<b[j/27\*27+j%9/3\*3+i/9+i/27\*6];y(i)if(~w>>i&i<=9){b[j]=i;g();if(!k)return;b[j]=0;}return;}k=0;}int main(){y(k)scanf("%d",b+k);g();y(k)printf("%d%c",b[k],k%9-8?32:10);return 0;}

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#include<stdio.h>

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