# ImplementNQueen's problemusingBack Tracking.

#include <stdio.h>#include <stdlib.h>intx[10];

intplace(intk,inti)

{

int j;

for(j=1;j<=k-1;j++)

if(x[j]==i || abs(x[j]-i)==abs(j-k))return0;

return1;

}

voiddisplay(intn)

{

int k,i,j;

char cb[n][n];for(k=1;k<=n;k++)

cb[k][x[k]]='Q';for(i=1;i<=n;i++)

{

for(j=1;j<=n;j++)

{

if(j!=x[i])cb[i][j]='-';

}

}

for(i=1;i<=n;i++)

{

for(j=1;j<=n;j++)

printf("%c\t",cb[i][j]);printf("\n");

}

printf("\n\n");

}

voidNQueens(intk,intn)

{

int i;for(i=1;i<=n;i++)

if(place(k,i))

{

x[k]=i;if(k==n)

display(n);

else

}

}

NQueens(k+1,n);

intmain(void)

{

intn,k=1;

printf("Enter the dimensions of the chessboard\n");scanf("%d",&n);

if(n==2||n==3)

{

printf("No solution\n");exit(0);

}

NQueens(k,n);return0; }