N queue problem

**#include<stdio.h>**

**#include<math.h>**

**Int board[20],count;**

**Int main()**

**{**

**Int n,i,j;**

**Void queen(int row,int n);**

**Printf(“ – N Queens Problem Using Backtracking –“);**

**Printf(“\n\nEnter number of Queens:”);**

**Scanf(“%d”,&n);**

**Queen(1,n);**

**Return 0;**

**}**

**Void print(int n)**

**{**

**Int i,j;**

**Printf(“\n\nSolution %d:\n\n”,++count);**

**For(i=1;i<=n;++i)**

**Printf(“\t%d”,i);**

**For(i=1;i<=n;++i)**

**{**

**Printf(“\n\n%d”,i);**

**For(j=1;j<=n;++j)**

**{**

**If(board[i]==j)**

**Printf(“\tQ”);**

**Else**

**Printf(“\t-“);**

**}**

**}**

**}**

**Int place(int row,int column)**

**{**

**Int i;**

**For(i=1;i<=row-1;++i)**

**{**

**If(board[i]==column)**

**Return 0;**

**Else**

**If(abs(board[i]-column)==abs(i-row))**

**Return 0;**

**}**

**Return 1;**

**}**

**Void queen(int row,int n)**

**{**

**Int column;**

**For(column=1;column<=n;++column)**

**{**

**If(place(row,column))**

**{**

**Board[row]=column;**

**If(row==n)**

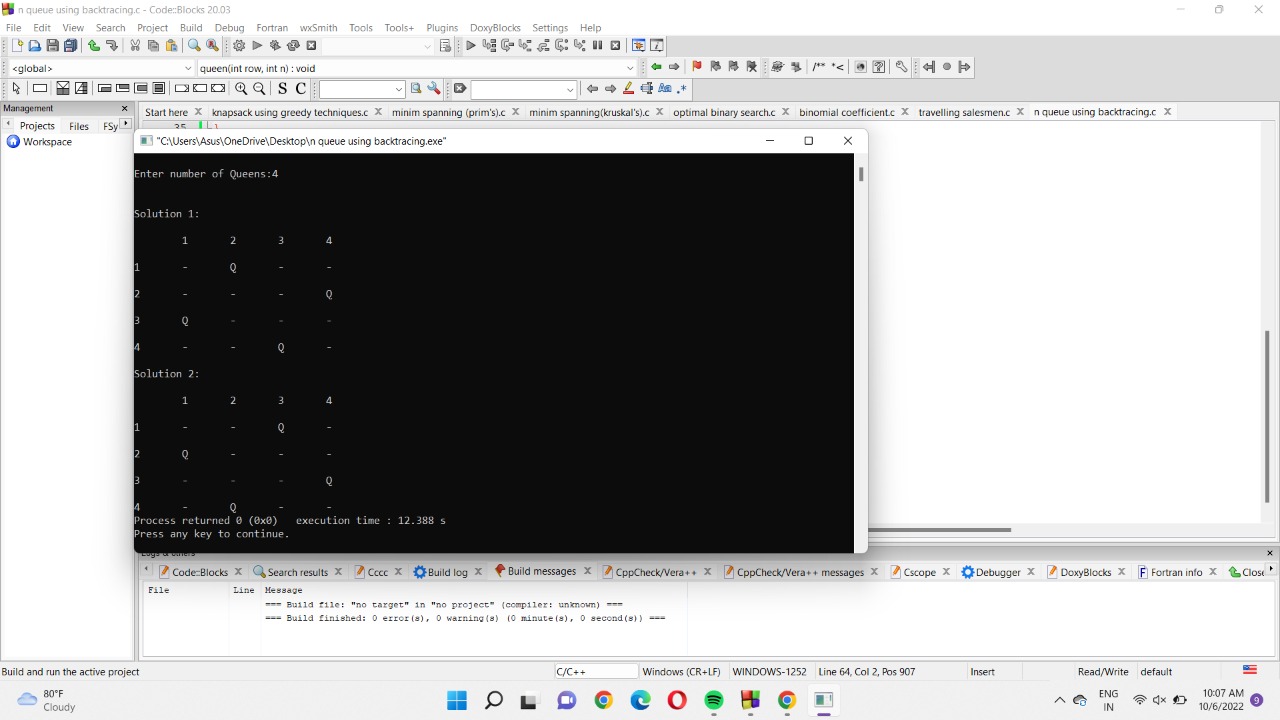
**Print(n);**

**Queen(row+1,n);**

**}**

**}**

**}**

****