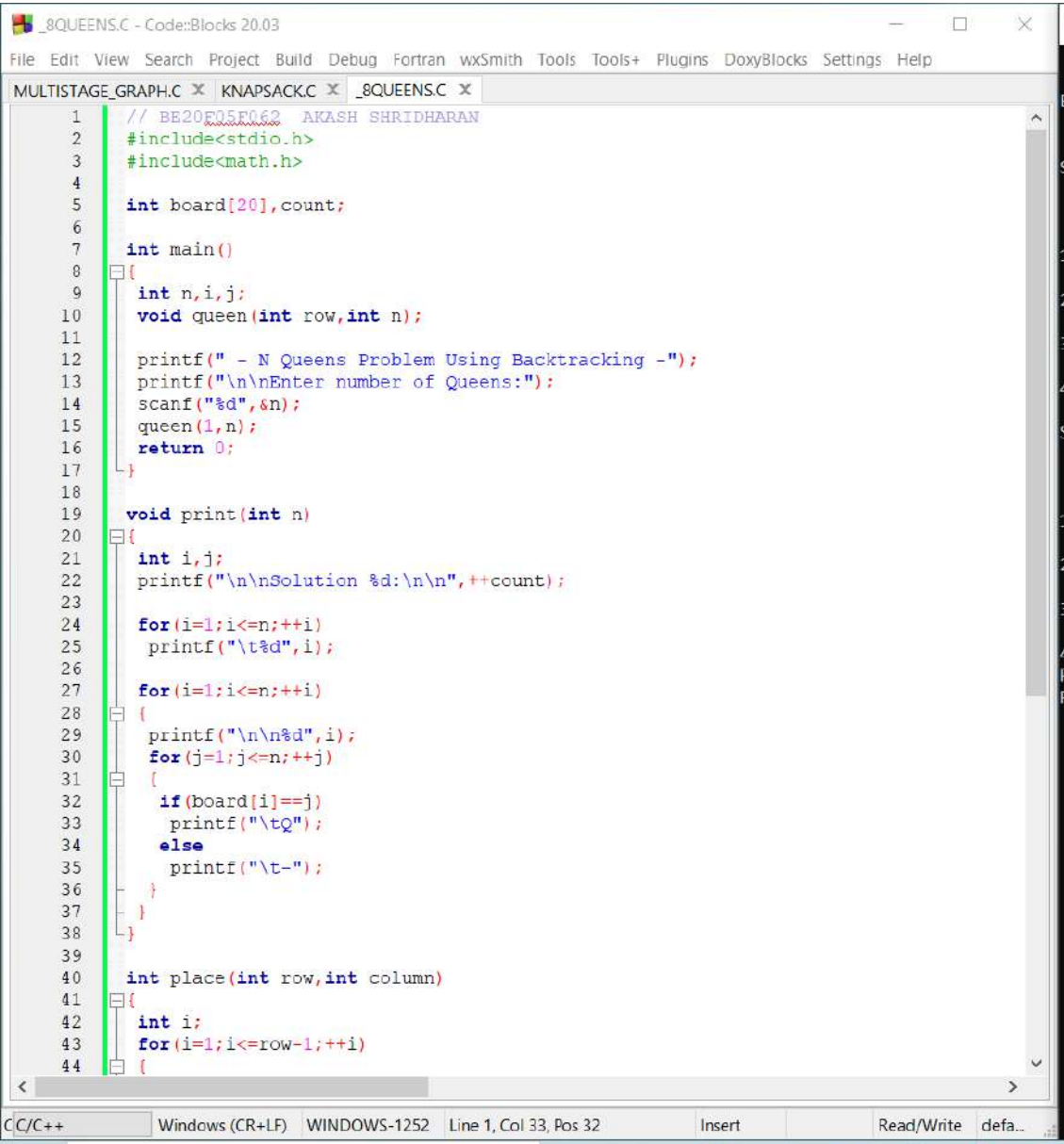
_8QUEENS.C - Code::Blocks 20.03
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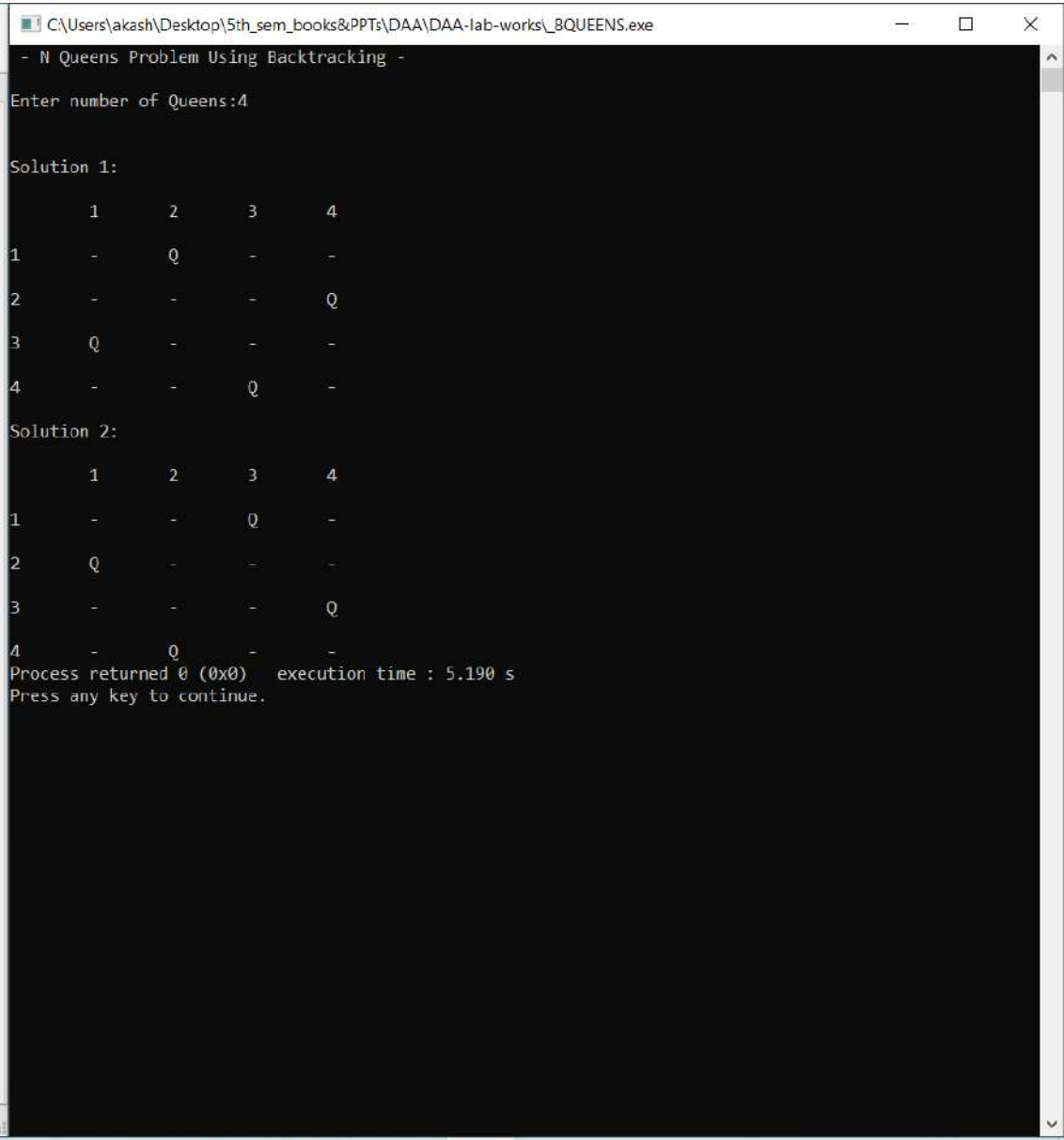
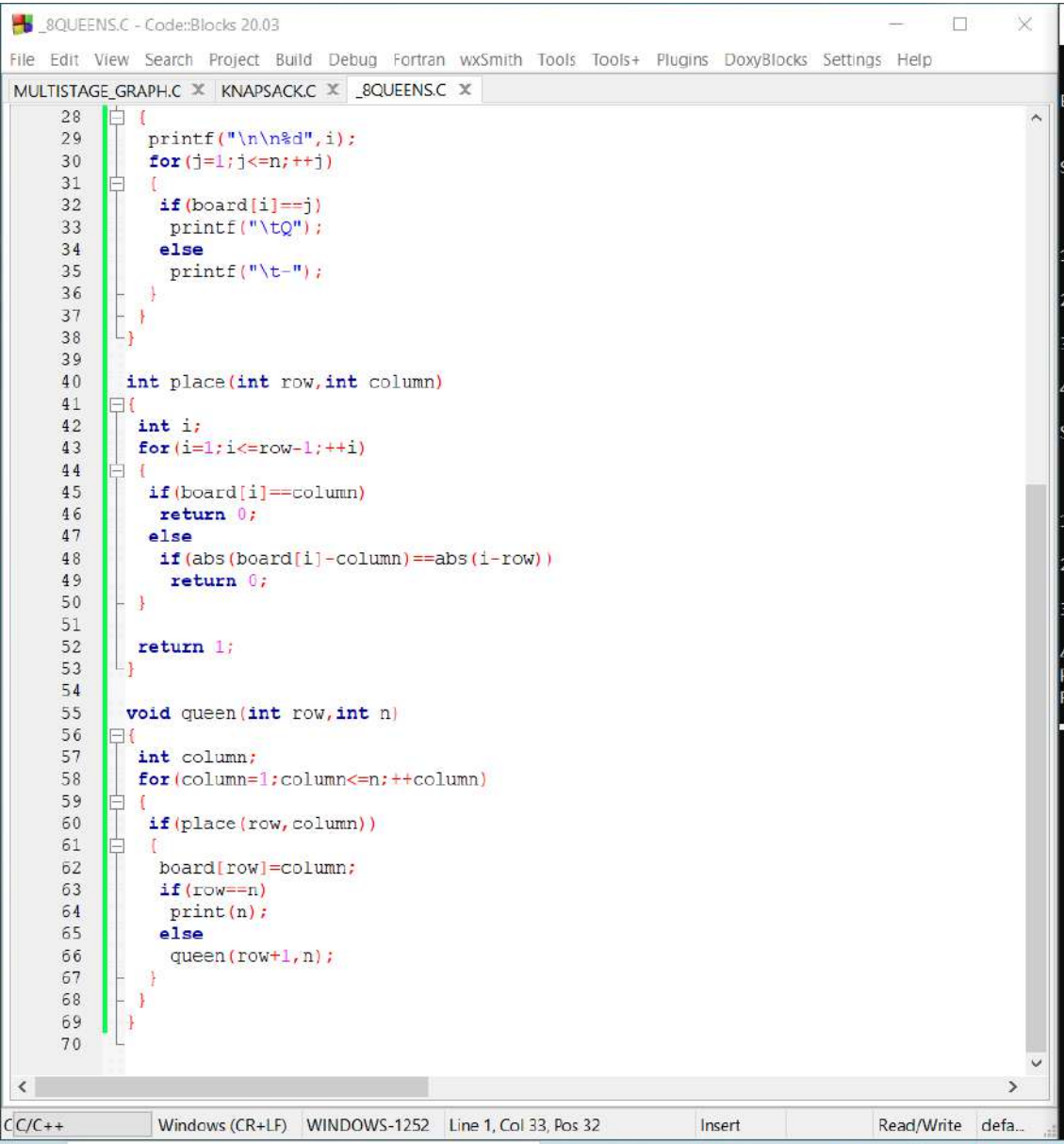
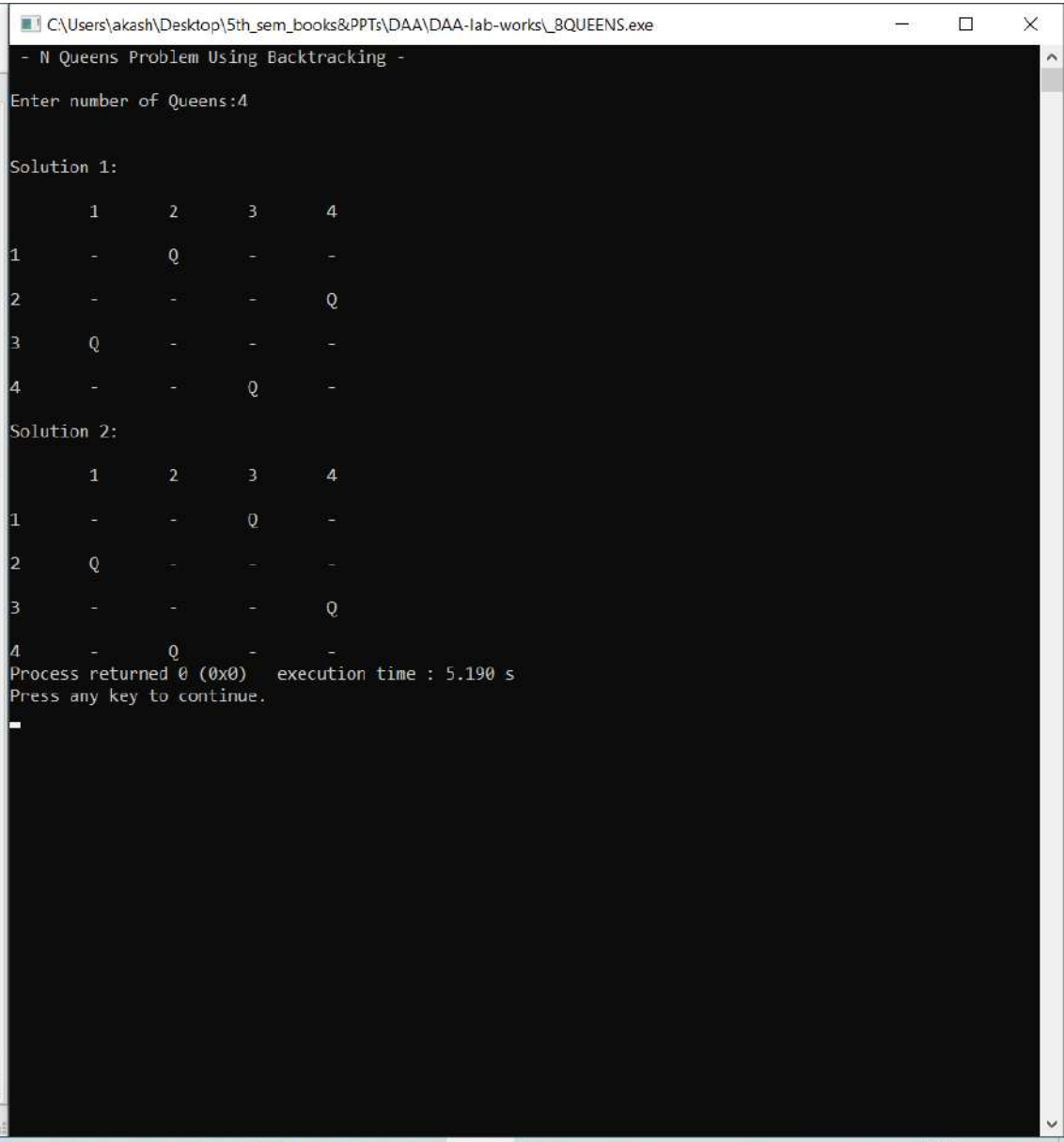
MULTISTAGE_GRAPH.C
KNAPSACK.C
_8QUEENS.C
// BE20E05F062 AKASH SHRIDHARAN
#include<stdio.h>
#include<math.h>
int board[20],count;
int main()
{
int n,i,j;
void queen(int row,int n);
printf(" - N Queens Problem Using Backtracking -");
printf("\n\nEnter number of Queens:");
scanf("%d",&n);
queen(1,n);
return 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)
{
C/C++
Windows (CR+LF)
WINDOWS-1252
Line 1, Col 33, Pos 32
Insert
Read/Write
defa...


C:\Users\akash\Desktop\5th_sem_books&PPTs\DAA\DAA-lab-works_8QUEENS.exe
- N Queens Problem Using Backtracking -
Enter number of Queens:4
Solution 1:
1 2 3 4
1 - Q - -
2 - - - Q
3 Q - - -
4 - - Q -
Solution 2:
1 2 3 4
1 - - Q -
2 Q - - -
3 - - - Q
4 - Q - -
Process returned 0 (0x0) execution time : 5.190 s
Press any key to continue.


Type here to search
29°C
ENG
16:33
26-11-2022


_8QUEENS.C - Code::Blocks 20.03
File Edit View Search Project Build Debug Fortran wxSmith Tools Tools+ Plugins DoxyBlocks Settings Help
MULTISTAGE_GRAPH.C
KNAPSACK.C
_8QUEENS.C
{
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);
else
queen(row+1,n);
}
}
}
C/C++
Windows (CR+LF)
WINDOWS-1252
Line 1, Col 33, Pos 32
Insert
Read/Write
defa...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1 2 3 4
1 - - Q -
2 Q - - -
3 - - - Q
4 - Q - -
Process returned 0 (0x0) execution time : 5.190 s
Press any key to continue.


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