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#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)</pre>
 printf("\t%d",i);
for(i=1;i<=n;++i)
 printf("\n\n%d",i);
 for(j=1;j<=n;++j)</pre>
   if(board[i]==j)
    printf("\tQ");
   else
    printf("\t-");
  }
}
}
int place(int row,int column)
{
int i;
for(i=1;i<=row-1;++i)</pre>
 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);
   }
}</pre>
```